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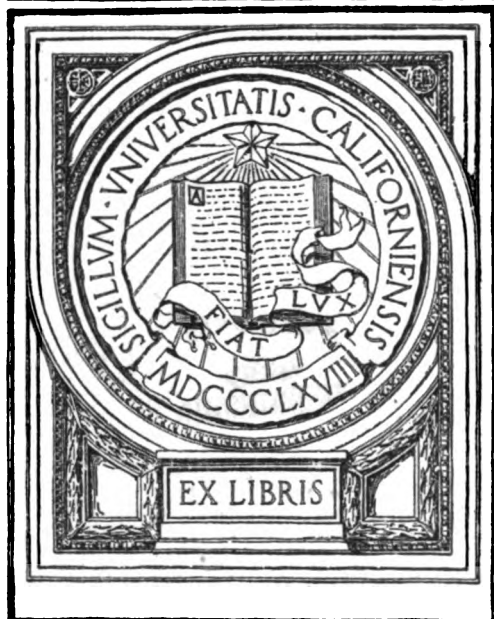
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STATE AND COUNTIES.	Number of males to 100 females. †	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1, 1870, represented by births in 1872.*	Per cent. of births of each sex to popula- tion of same sex.	COLOR.					
						Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
STATE	107	Total .....	.....	1,160,253	2.89	27,993	27,585	124	59	170	10
		Males.....	51.80	609,946	2.87	14,457	14,225	67	32	82	5
		Females ...	48.20	550,387	2.41	13,458	13,241	56	27	87	4
		Unknown..	.....	.....	.....	83	69	1	..	1	1
Alcona ‡ §....	100	Total	100.00	696	4.60	32	32	.....	.....	.....	.....
		Males.....	50.00	393	4.07	16	16	.....	.....	.....	.....
		Females ...	50.00	303	5.28	16	16	.....	.....	.....	.....
Allegan §.....	100	Total .....	.....	31,105	2.14	666	662	1	8	.....	.....
		Males.....	50.23	16,485	2.03	333	330	1	52	.....	.....
		Females ...	49.77	14,667	2.25	330	329	.....	1	.....	.....
		Unknown..	.....	.....	.....	3	3	.....	.....	.....	.....
Alpena §.....	92	Total	100.00	2,612	2.07	54	54	.....	.....	.....	.....
		Males.....	48.15	1,628	1.59	26	26	.....	.....	.....	.....
		Females ...	51.85	984	2.85	28	28	.....	.....	.....	.....
Antrim	140	Total	100.00	1,985	3.02	60	58	.....	.....	2	.....
		Males.....	55.23	1,118	3.12	35	33	.....	.....	2	.....
Annual Report of the Secretary of State on the Registration of Births and Deaths, ...											
Michigan. Commissioner of Health											
		Females ...	47.08	10,554	2.07	218	218	2
								2

EXCHANGE



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SIXTH ANNUAL REPORT
OF THE
SECRETARY OF STATE
OF THE
STATE OF MICHIGAN,
RELATING TO THE REGISTRY AND RETURN OF
BIRTHS, MARRIAGES, AND DEATHS,
FOR THE YEAR 1872.



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Department of State, Lansing, Mich., }
December 14, 1877. }

HON. CHARLES M. CROSWELL,

Governor of Michigan:

SIR:—I herewith submit the Sixth Annual Report of this
Department, concerning Births, Marriages, and Deaths.

Very Respectfully,

E. G. D. HOLDEN,

Secretary of State.

337425

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SIXTH REGISTRATION REPORT,
CONCERNING
VITAL STATISTICS OF MICHIGAN, 1872.

GENERAL REMARKS AND STATEMENTS.

In the general remarks in the last Report, over the signature of the compiler, certain suggestions relative to amending the law were repeated, which had been mentioned in the introductory letter by the Secretary of State, in a previous Report. The compiler has continued to labor for some improvements in the laws providing for these statistics, as well as for the improvement of methods of compilation; and though no amendment has been made in the law since the last Report, it is believed that some progress has been made in methods of compiling vital statistics. As the need of amending the law is as great now as formerly, it seems best briefly to mention again some of the points wherein it is thought the law may be so improved as better to promote the progress of social science in general, and particularly to advance the interests of life and health in Michigan.

1. One of the ways in which the statistics of births may be improved is by making it the duty of the parents of every child born to give a statement of all facts connected with its birth which are needed for legal and statistical purposes, and

to place these statements on record,—in a township, with the supervisor, clerk, or health officer; in an incorporated village, with the assessor, clerk, or health officer; in a city, with some officer connected with the board of health. Some such provision should be made for securing a record of those births which now escape enumeration because of the time which elapses, and the movements of the people which occur before the assessor goes about to enumerate the births.

2. The material for the statistics of deaths should be improved in a similar manner, by making it the duty of the parents of the deceased person, or if there is no resident parent, the eldest resident person next of kin, and otherwise of every householder in whose household a death shall occur, to place on record immediately with some of the above mentioned officers, a full statement, concerning every person who dies, of all the facts requisite for legal, statistical, and public health purposes. The benefits which will result to the individual born, and to his family, or to the family of the deceased person, will be such as to warrant such a demand by society. On the other hand, the benefit to society will be sufficient recompense for all expenses of keeping and returning copies of such record.

3. No fee for recording births, marriages, or deaths should be demanded of the person who supplies the facts for record. It may be a question worthy of consideration whether some slight compensation should not be given to such person; though it is believed that the interest of the family is such that the statements of facts may properly be required of them, and the facts are of sufficient value to society to make it the duty of the State to keep the record, and to place the combined facts before the people.

4. The foregoing refers to the essential facts of the occurrence of births, marriages, or deaths. There are certain other facts concerning each of these occurrences, which should be ascertained, in addition to those which the law now requires to be recorded. Some reasons therefor were given in the last

Report. The additional facts which should be recorded are as follows:

- a. The age, at last birthday, of parents of children born.
- b. The age of persons married should be stated as at last birthday. As the law now is, the statement is indefinite.
- c. The nativity of parents of all who die.
- d. The occupations of fathers of children that die under a certain age—say fifteen years.
- e. The time of residence in this State, of all who die therein.
5. The law should provide that the christian names of children, born and returned before such names have been given them, should be returned to the State Department by the county clerks.
6. At present there is no special provision for enumerating the births and deaths in incorporated villages. There may be a question, whether in all cases in the villages they are collected and returned by the township supervisors who make assessments therein. Under the present law, it seems to be the duty of the supervisor of the township; but the law should be more explicit, and it might be better to have the vital statistics in villages collected by a village officer.

There are other questions, relating to these statistics, which cannot well be discussed here, but which should be considered by legislators before taking action on this important subject. In the Fourth Annual Report of the Michigan State Board of Health, for the year 1876, the president and the secretary of the Board each discuss the subject,—the president in his annual address on "The Achievements of Hygienic Science and Art,"—and the Secretary in a "Report on Methods of Collecting Vital Statistics."

The value and the importance of vital statistics are now well established. It is conceded by all prominent sanitarians that vital statistics supply the most substantial basis for sanitary work; and that without such statistics efforts for the promotion of the public health are made at random. People are

beginning to realize the truth of Franklin's saying that "Public Health is Public Wealth." The New York Times, Nov. 12, 1874, says: "If we cannot go the length of Mr. Disraeli in stating that sanitary reform is the great question for the statesmanship of our day, we may at least safely insist that it is time the public were more fully educated in its requirements." For this education we need to know the sources of greatest danger to life and health; and these are only learned through a study of the facts relating to diseases and deaths; and only accurately learned by means of accurate statistics, carefully studied.

It seems probable that one reason why statistical works are not more freely used in cases where statements of facts are needed, is the fear of wrong interpretation of the tables or figures, and particularly the difficulty of marking out and following new lines of thought which may be made to result from the grouping of facts in the statistical manner. As regards national compilations of statistics, as, for instance, the U. S. Census, it is usual for some person to work out from them a few popular statements, and for these statements to be used by nearly all who use the material of the census; each writer preferring to accept work already done rather than to make new combinations for himself. This fact, and another, which this one may imply, namely, that expert ability and some degree of familiarity with the methods of compilation, sources of the statistics, etc., are needed to enable one to work out from them accurate and reliable statements applicable to problems in social science, are among the reasons why it is important that a certain amount of editorial work shall be done by the compiler, in addition to his work in planning such tables, exhibits, and diagrams, as shall best reveal the truths which may be learned from the collation of the returns.

It has seemed to the compiler that at least so much should be done as to start the discussion of some line of thought in connection with each important table or group of data, and briefly to indicate any danger of misinterpretation which

might otherwise lead to a wrong use of the material. This has required much thought, and time; and, as mentioned in the last Report, through circumstances apparently unavoidable, the work on statistics previous to this Report was much delayed. The compiler deeply regrets the delay in the publication of this Report, and hopes and expects that hereafter the publication will be brought nearer to the time of the collection of the data; but it is a satisfaction to know that the facts once on record do not rapidly lose their value; so that it is of very much more consequence that the collection and first record of these statistics be sooner made, than that the returns be rapidly compiled and printed. The main defect is that so many facts concerning births and deaths are entirely lost, because of the delay in the first collection of the statistics. It is exceedingly desirable that legal provision be made for placing them upon record before they are forgotten.

The compiler sincerely trusts that, as time goes on, this volume may prove of use to humanity, as containing valuable evidence on many questions connected with human life and health.

HENRY B. BAKER, M. D.,
Supt. of Vital Statistics.

C

BIRTHS, MARRIAGES, AND DEATHS

IN MICHIGAN,

DURING THE YEAR 1872.

This Sixth Annual Report, like its predecessors, is based upon the returns received from the county clerks. The enumeration of births and deaths is made and reported to the county clerks by the supervisors and assessors of townships and cities, except in Detroit, where the enumeration and report is by persons appointed by the common council. The statistics of marriages are reported to the county clerks by the justices of the peace, and the ministers of the gospel, who have legal authority to solemnize marriages in this State.

Not all births, marriages, or deaths are yet returned, and in studying the tables throughout this report, it is essential to bear this fact in mind. In some of the tables of births and deaths it has been found practicable to make certain corrections for omissions because of time elapsing before the enumeration. The reasons for these corrections, and the methods adopted, are stated on pages 9-15 for births, and pages 166-171 for deaths. The results of such corrections are shown in Table I., following these remarks--on page xvii. It is believed that the actual numbers are thus approximated. For many purposes, however, it is not essential to know the exact numbers, but it is important to know the relations existing between certain factors, as, for instance, the ratio of births or deaths of

persons of each sex, of each color, nativity, etc., or the ratio of deaths at each age to the deaths at all ages. These ratios may be correct, and for such purposes the statistics be of nearly full value, even though not all births or deaths are reported. But because of the vital importance of such statistics, which relate to the lives, and to the sources of danger to the lives of all our citizens, it is very desirable that more attention be given to the subject by the people themselves and by those charged with the first enumeration, to the end that the accuracy and consequent value of these statistics may be greatly increased.

The relations which the births, marriages, and deaths sustain to each other, in each of the years for which a record has been made in this State may be seen in Exhibit A, as may also the relation which either the births, marriages, or deaths in one year bears to the same in any other year.

EXHIBIT A.—*Births, Marriages, and Deaths returned as having occurred in Michigan during the Years 1868, 1869, 1870, 1871, and 1872.*

	1868.	1869.	1870.	1871.	1872.
Marriages..... ^a	8,645	10,296	9,707	10,456	9,882
Births.....	25,020	27,098	26,668	25,992	27,998
Deaths.....	2,225	9,145	10,766	9,728	12,371
Excess of Births over Deaths...	16,735	17,948	15,897	16,264	14,622

^a Corrected up to May 1, 1874.

Exhibit B has also been improved by the statements for an additional year, and by the other additions thereto.

EXHIBIT B.—*Statements concerning Births, Marriages, and Deaths in Michigan, during the Years 1870, 1871, and 1872.*

	1870. ^b	1871. ^b	1872. ^b
Inhabitants represented by returns of marriages to one marriage.....	121.80	112.51	120.00
In population represented by marriages, males to one marriage.....	63.29	58.71	62.43
In population represented by marriages, females to one marriage.....	58.01	53.81	57.16
Male inhabitants at ages at which marriages occurred to one marriage.....	87.83	84.95	88.09
Female inhabitants at ages at which marriages occurred to one marriage.....	87.98	86.63	87.24
Inhabitants represented by births to each child born.....	43.43	44.13	41.77
Inhabitants, males to each male child born.....	43.59	43.97	42.19
Inhabitants, females to each female child born.....	43.57	44.57	41.58
Inhabitants, females aged 16 to 45 to each child born.....	9.35	9.51	8.98
Children born to 100 females aged 16 to 45.....	10.63	10.52	11.13
Inhabitants represented by deaths to one death.....	107.13	117.54	86.61
Inhabitants, males to one death of male.....	107.48	114.75	84.09
Inhabitants, females to one death of female.....	107.50	121.67	89.93
Deaths, males to 100 females.....	108.73	115.17	116.55
Births, males to 100 females.....	108.80	110.21	107.46
Total population of State, males to 100 females.....	109.23	109.23	109.23
Births to one death.....	2.47	2.67	2.09
Births, males to one death of male.....	2.47	2.62	2.01
Births, females to one death of female.....	2.47	2.74	2.13
Children born of which the sex was unknown or not stated.....	91.00	69.00	58.00
Deaths of which the sex was unknown or not stated.....	87.00	85.00	27.00
Natural daily decrease of population as per births and deaths returned.....	43.55	44.56	39.95
Natural daily increase of population when returns are corrected as in 4th line of Exhibit A, page 12, and of Exhibit G, page 165.....		58.58	60.06

^a Marriages corrected up to May 1, 1874. See page 137.

^b In computing statements for this column, the inhabitants June 1, 1870, were used.

For some purposes, Table I. has been made more valuable in this than in former Reports, by adding statements for births and deaths in 1872, after the numbers have been corrected for omissions because of time before enumeration.

TABLE I.—*The Number of Marriages, Births, and Deaths, and Excess of Births over Deaths in the State of Michigan during the Year, and the Average Number and Excess during Specified Periods of Time within the Year 1872,—Births and Deaths as Returned and as Corrected.*

PERIODS OF TIME.		Marriages.	Births.	Deaths.	Excess of Births over Deaths.
Births and Deaths as Returned.	Year 1872..... ^a	9,882.00	27,998.00	18,371.00	14,622.00
	Quarter.....	2,470.50	6,998.25	8,912.75	3,655.50
	Month.....	828.50	2,332.75	1,114.25	1,218.50
	Week.....	190.04	588.83	257.18	326.20
	Day.....	27.00	76.48	86.58	89.95
Births and Deaths as Corrected. ^b	Year 1872..... ^a	9,882.00	48,081.00	21,101.00	21,980.00
	Quarter.....	2,470.50	10,770.25	5,275.25	5,495.00
	Month.....	828.50	8,590.08	1,758.42	1,381.66
	Week.....	190.04	828.48	405.79	422.69
	Day.....	27.00	117.71	57.65	60.06

^a Unknown month included.

^b Corrected as if enumerated in months of occurrence. For reasons for, and methods of corrections, see pages 9-15 for births, and pages 166-171 for deaths.

EXHIBIT C.—*By Nativity and Sex, the Relation of Inhabitants to Persons Married, Children Born, and to Decedents, in Michigan during the Year 1872, according to the returns.*

NATIVITY OF INHABITANTS, OF PERSONS MARRIED, OF DECEDENTS, AND OF PARENTS OF CHILDREN BORN. ^a	TO 100 INHABITANTS, JUNE 1, 1870:								
	Persons Married, 1872.			Children Born, 1872.			Deaths, 1872.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Native.....	1.20	1.26	1.83	1.41	1.41	1.89	1.18	1.20	1.15
Foreign.....	1.84	1.21	1.51	8.66	8.89	8.96	.81	.88	.71

^a In persons married, and in parents, the nativity includes only cases where both parties are "Native" or "Foreign."

It should be borne in mind that the Native Inhabitants include nearly all the children, whether born of native or of foreign parents.

Exhibits C and D are new ones, compiled in attempting to answer questions asked of the Superintendent of Vital Statistics by those engaged in studying the comparative conditions and relations of the native and of the foreign born inhabitants of this country. It is much to be regretted that the facts cannot well be learned from the meagre statements relating to this subject provided for in our present law for the collection of vital statistics. Much money has been appropriated and used by this State in encouraging immigration, and still the numerous questions as to comparative sickness and death-rates, insanity, defectives, pauperism and crime among native and foreign-born inhabitants remain in great part to be answered. It will be a long time before any real knowledge will be secured, unless better provision is made for perfecting the laws for the collection of Vital Statistics.

If we can believe the statistics, the birth-rate is much greater and the death-rate much less among the foreign than among the native-born inhabitants of this State; but this is probably because the foreign-born are nearly all at the reproductive middle ages, and at such ages the death-rate is always small, compared with that at other ages. There are as yet no data which will permit of comparisons of death-rates of children born of native and of foreign-born parents in Michigan.

Exhibits C and D should be studied with caution. They are not offered as conclusive on any point, but only as contributions to the study, in the hope of stimulating research, and that by indicating some of the uses therefor, they may tend toward securing more complete statistics.

EXHIBIT D.—Grouping the evidence of the Vital Statistics on the subject of the Comparative Natural Increase of Native and Foreign-born Inhabitants of Michigan, by Excess of Births over Deaths; the Evidence Exhibited covering the Years 1869, 1870, 1871, and 1872.

	1869.		1870.		1871.		1872.	
	Total.	Both Parents of Children Native. Deaths of Native-born.	Total.	Both Parents of Children Native. Deaths of Native-born.	Total.	Both Parents of Children Native. Deaths of Native-born.	Total.	Both Parents of Children Native. Deaths of Native-born.
Births, by Parent-Nativity	* 27,008	18,060	8,018	12,805	8,604	11,374	8,734	12,907
Deaths, by Nativity.....	+ 9,145	+ 7,517	+ 1,275	+ 5,504	+ 1,609	+ 7,759	+ 1,605	+ 10,812
Excess of Births over Deaths.....	17,943	5,548	6,763	15,597	8,591	16,284	7,126	2,095
				* 26,663	8,604	* 25,992	8,734	* 27,993
				+ 10,766	+ 1,609	+ 9,798	+ 1,605	+ 13,871
								14,623
								9,721
								12,146
								7,575

* Includes children of mixed parentage, and those where the Nativity of one or both parents was unknown.

+ Includes deaths of persons of unknown nativity.

† Includes all deaths of persons born in this country of Foreign-born Parents.

‡ Includes only persons who were born in Foreign countries.

In this Exhibit, the large death-rate among the greater than average proportion of children born here of foreign-born inhabitants goes to swell the "Deaths of Native-born," while only the small death-rate among the middle aged foreign-born inhabitants is subtracted from the "Births,—Both Parents of the Children Foreign."

It is not possible to make any better comparative exhibit of the natural increase of native and foreign-born inhabitants, by excess of births over deaths in this State, for the reason that the parent-nativity of decedents is not yet returned in this State. The law should be so amended as to require this very important item.

TABLE II.—*Exhibiting, by Sex, the Population June 1, 1870, the Number of Marriages, Births, and Deaths, and the Excess of Births over Deaths in Michigan during the Year 1872.*

STATE AND COUNTIES.	POPULATION JUNE 1, 1870.			Marriages, 1872.	Births, 1872.			Deaths, 1872.			Excess of Births over Deaths. ^a					
	Total.	Sex.			Total.	Sex.		Total.	Sex.		Total.	Sex.				
		Males.	Females.			Males.	Females.		Unknown.	Males.		Females.	Unknown.	Males.	Females.	Unknown.
State.....	1,181,922	618,251	566,081	9,892	27,998	14,457	13,458	83	18,871	7,182	6,162	27	14,692	7,275	7,991	56
Alcona..... ^b	766	441	325	8	32	16	16	.....	17	8	9	.....	15	8	7	.....
Allegan..... ^c	82,105	17,060	15,105	251	665	333	330	8	333	210	170	8	233	128	160	.....
Alpena..... ^d	2,756	1,719	1,037	54	54	26	28	.....	19	12	7	.....	35	14	21	.....
Antrim.....	1,985	1,118	867	20	60	35	25	.....	33	16	17	.....	27	19	8	.....
Barry.....	22,200	11,616	10,554	156	463	245	218	.....	208	96	105	.....	260	147	118	.....
Bay.....	15,900	8,914	6,986	175	535	409	422	6	363	221	142	.....	475	188	281	6
Benzie.....	2,184	1,168	1,016	14	75	40	35	.....	75	41	34	.....	.....	-1	1	.....
Berrien.....	35,104	18,068	17,041	851	670	342	327	1	443	241	201	.....	228	101	136	1
Branch.....	26,227	12,243	12,979	241	511	279	231	1	301	164	136	1	210	115	95	.....
Calhoun.....	26,571	12,550	13,021	347	641	343	298	.....	337	181	176	.....	284	162	122	.....
Cass..... ^e	21,096	10,938	10,158	204	339	174	163	8	156	86	69	1	138	88	98	9
Charlevoix.....	1,724	911	788	17	60	32	28	.....	33	18	15	.....	27	14	13	.....

	2,197	1,985	969	7	74	36	37	1	19	10	9	.....	55	26	28	1
Cheboygan.....	1,690	980	760	7	76	43	34	.....	83	19	13	.....	44	28	21	---
Chippewa.....	866	285	81	8	19	9	10	.....	8	5	8	.....	11	4	7	---
Clare.....	22,551	11,818	11,089	151	515	283	282	.....	253	141	113	.....	262	142	120	---
Clinton.....	2,441	1,486	955	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	---
Delta.....	25,168	12,949	12,314	239	592	274	248	5	263	135	126	2	259	139	117	8
Eaton.....	1,211	629	593	9	51	21	30	.....	33	29	9	.....	18	8	21	---
Emmet.....	33,595	17,449	16,446	256	599	309	263	2	277	145	181	1	322	164	137	1
Goncess.....	4,448	2,359	2,054	82	98	41	42	.....	74	33	43	.....	9	9	.....	---
Grand Traverse...	11,508	6,189	5,619	80	331	179	173	.....	171	89	83	.....	150	90	90	---
Gratiot.....	31,683	16,104	15,354	855	548	273	270	.....	381	161	170	.....	213	112	100	---
Hilledale.....	13,893	7,745	6,187	106	463	227	234	2	123	79	49	.....	385	148	135	2
Houghton.....	9,043	5,086	4,012	37	323	173	145	.....	113	66	47	.....	210	112	98	---
Huron.....	25,268	13,096	12,172	217	549	295	252	2	306	152	151	3	243	148	101	-1
Ingham.....	27,675	14,452	13,228	259	622	321	299	2	304	159	143	2	318	162	156	---
Ionia.....	8,175	1,913	1,262	44	63	43	25	.....	39	19	20	.....	29	24	5	---
Iosco.....	4,113	2,211	1,903	33	135	66	61	1	49	25	24	.....	79	41	37	1
Isabella.....	36,040	19,056	16,954	304	637	345	343	.....	365	199	165	1	322	146	177	-1
Jackson.....																

* The figures with the minus sign placed before them indicate the excess of deaths over births.

† Includes population of Oscoda county. No returns of births.

‡ No returns of births from the township of Beata.

§ No returns of births or deaths from the township of Oshtemo.

|| No returns of births or deaths from the township of Mason.

† No returns of births or deaths from the township of Norwood.

‡ No returns of births or deaths from the township of Sheridan.

§ No returns of births, marriages or deaths.

|| No returns of births or deaths from the township of Franklin.

† No returns of deaths from the township of Grant, and no returns of births or deaths from the township of Oscoda.

TABLE II.—CONTINUED.

COUNTIES.	POPULATION JUNE 1, 1870.				Marriages, 1872.	Births, 1872.				Deaths, 1872.				EXCESS OF BIRTHS OVER DEATHS. ^a			
	Total.	SEX.		Total.		Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	
		Males.	Females.														
Kalamazoo	32,065	16,522	15,543	241	624	311	310	3	339	192	147	.....	285	119	163	3
Kalkaska.....	424	244	180	5	27	16	11	.....	21	10	11	.....	6	6	.....	.....
• Kent.....	50,410	26,166	24,244	514	1,290	657	629	4	567	296	269	2	723	361	360	2	
Keweenaw..... ^b	4,206	2,327	1,879	1	90	44	46	.....	89	26	11	2	51	18	35	2
Lake..... ^c	518	305	213	8	24	13	11	.....	9	6	3	.....	15	7	8	.....
Lapeer.....	21,342	11,051	10,291	158	414	213	198	3	219	106	118	.....	195	112	80	3
Leelanaw	4,577	2,401	2,176	29	153	80	73	.....	72	28	34	.....	81	42	39	.....
Lenawee.....	45,601	22,916	22,685	488	801	426	373	2	362	183	179	.....	489	243	194	2
Livingston.....	19,335	10,072	9,263	160	350	201	179	.....	186	73	63	.....	244	128	116	.....
Mackinac..... ^d	1,715	905	810	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macomb.....	27,619	14,096	13,523	152	553	296	257	.....	187	102	85	.....	366	194	173	.....
Manistee..... ^e	6,074	3,458	2,616	51	240	132	108	.....	107	58	49	.....	183	74	59	.....
Manitou..... ^f	891	483	408	.....	15	6	7	.....	3	1	2	.....	12	7	5	.....
Marquette..... ^g	14,278	8,465	5,793	190	563	311	256	1	298	165	138	.....	27	146	128	1

Mason..... ^h	8,986	1,814	1,452	29	148	73	76	.....	55	29	26	.....	93	48	50	.....
Meosta..... ⁱ	5,615	8,061	2,554	76	171	92	79	.....	57	28	29	.....	114	64	50	.....
Menominee.....	1,595	1,206	629	16	29	16	13	.....	13	14	4	.....	11	2	9	.....
Midland..... ^j	3,283	1,918	1,470	30	96	55	41	.....	67	86	30	1	29	19	11	-1
Misaukee..... ^k	180	76	51	4	10	4	6	.....	8	4	4	.....	2	.....	2	.....
Monroe..... ^l	27,475	18,960	13,325	204	688	318	320	.....	191	98	93	.....	447	225	223	.....
Montcalm..... ^m	13,641	7,284	6,357	137	395	152	172	1	217	112	105	.....	105	40	67	1
Muskegon..... ⁿ	14,592	8,492	6,490	157	271	136	134	1	169	90	79	.....	102	46	55	1
Newaygo..... ^o	7,292	3,910	3,352	69	139	71	68	.....	59	83	26	.....	80	83	42	.....
Oakland.....	40,906	21,185	19,771	266	545	257	258	.....	800	186	163	1	245	151	95	-1
Oceana.....	7,222	3,948	3,274	45	218	115	103	.....	127	68	58	1	91	47	45	-1
Ontonagon.....	2,846	1,480	1,416	12	59	35	23	.....	15	5	10	.....	43	30	13	.....
Osceola..... ^p	2,104	1,167	937	46	106	48	53	.....	23	18	10	.....	78	30	43	.....

^a The figures with the minus sign placed before them indicate the excess of deaths over births.

^b No returns of births or deaths from the townships of Eagle Harbor and Grant.

^c No returns of deaths from the township of Yates.

^d No returns of births, marriages or deaths.

^e No returns of deaths from the townships of Morilla and Springdale, and no returns of births or deaths from the townships of Afton and Stroh.

^f No returns of deaths from the township of Gallie.

^g No returns of deaths from 3d ward of Ishpeming City.

^h No returns of deaths from the townships of Branch, Free Soil, Hamlin, and Pere Marquette.

ⁱ No returns of deaths from the township of Grant.

^j No returns of deaths from the township of Homer, and no returns of births or deaths from the township of Lincoln.

^k No returns of deaths from the township of Reeder.

^l No returns of deaths from the townships of Exeter, Frenchtown, Milan and Kalamazoo, and no returns of births or deaths from the township of Ash.

^m No returns of births or deaths from the townships of Home and Montcalm.

ⁿ No returns of deaths from the township of Laketon, and no returns of births or deaths from the township of Cedar Creek.

^o No returns of deaths from the townships of Grant and Norwich, and no returns of births or deaths from the townships of Beaver and Bridgeton.

^p No returns of deaths from the townships of Richmond and Sylvan, and no returns of births or deaths from the township of Cedar.

TABLE II.—CONTINUED.

COUNTIES.	POPULATION JUNE 1, 1870.			Marriages, 1872.	BIRTHS, 1872.			DEATHS, 1872.			EXCESS OF BIRTHS OVER DEATHS. ^a			
	Total.	Sex.			Total.	Sex.		Total.	Sex.		Total.	Sex.		
		Males.	Females.			Males.	Females.		Males.	Females.		Males.	Females.	
														Unknown.
Ottawa.....	26,650	14,050	12,600	187	780	428	354	8	406	226	180	197	174	8
Presque Isle..... ^b	835	220	126	4	26	13	14	.....	11	4	7	8	7	.....
Saginaw..... ^c	39,098	21,064	18,034	449	1,224	610	609	5	553	291	292	289	277	5
Sanilac.....	14,535	7,722	6,848	102	485	212	228	.....	144	60	75	143	148	.....
Schoolcraft.....	799	519	280	5	18	7	6	.....	7	6	1	1	5	.....
Shiawassee.....	20,822	10,815	10,007	106	440	226	214	.....	167	89	78	187	186	.....
St. Clair.....	36,759	19,011	17,748	825	982	505	476	1	442	284	207	271	269	.....
St. Joseph.....	26,272	13,480	12,792	268	395	206	189	.....	211	112	90	184	94	.....
Tuscola..... ^d	13,715	7,268	6,452	129	391	195	196	.....	187	59	78	186	118	.....
Van Buren.....	28,685	14,907	13,928	232	518	296	252	.....	398	174	154	220	122	98
Washtenaw..... ^e	41,440	21,478	19,962	270	678	389	389	.....	866	185	181	312	154	158

Wayne.....	112,068	59,964	59,104	463	4,045	2,056	1,929	30	1,761	1,010	746	5	2,984	1,076	1,188	28
Wexford.....	650	844	806	9	21	10	11	-----	21	10	11	-----	-----	-----	-----	-----

^a The figures with the minus sign placed before them indicate the excess of deaths over births.

^b No returns of birth or deaths from the township of Presque Isle.

^c No returns of deaths from the township of Albee.

^d No returns of deaths from the township of Ellington.

^e No returns of deaths from the township of Freedom.

^f No returns of deaths from the townships of Clam Lake and Cleon.

and no returns of births or deaths from the townships of Collax and Henderson.

EXHIBIT E.—Births and Deaths for the Years 1871 and 1872 Not elsewhere Included in the compilation ; because of having occurred Out of this State, or having been returned in Two Counties, and only compiled for One county.

STATE AND COUNTIES.	BIRTHS IN 1871 NOT COMPILED.		DEATHS IN 1871 NOT COMPILED.		BIRTHS IN 1872 NOT COMPILED.		DEATHS IN 1872 NOT COMPILED.	
	Occurred out of Michigan.	Returned in two Counties.	Occurred out of Michigan.	Returned in two Counties.	Occurred out of Michigan.	Returned in two Counties.	Occurred out of Michigan.	Returned in two Counties.
State.....	278	9	76	13	268	2	98	15
Alcona.....					1			
Allegan.....	6		2		2		2	
Alpena.....								
Antrim.....								1
Barry.....	7		2		8		8	
Bay.....	17		1		50		5	
Benzie.....					2		2	
Berrien.....	8	1	9	1	9		8	1
Branch.....	7		2		5		2	
Calhoun.....	1		1	1	8		5	
Cass.....	8				4		6	1
Charlevoix.....					1			
Cheboygan.....								
Chippewa.....							1	
Clare.....					1			
Clinton.....	7		1		4		1	
Delta.....	5		1					
Eaton.....	4		1		2			
Emmet.....								
Genesee.....	8				3			
Grand Traverse.....		1					1	1
Gratiot.....	7		1		8		1	
Hillsdale.....	7		8		5		2	1
Houghton.....	4		1		10		1	
Huron.....	4		4		11		1	

**EXHIBIT E.—CONTINUED.—*Births and Deaths,
Not elsewhere Compiled.***

COUNTIES.	BIRTHS IN 1871 NOT COMPILED.		DEATHS IN 1871 NOT COMPILED.		BIRTHS IN 1872 NOT COMPILED.		DEATHS IN 1872 NOT COMPILED.	
	Occurred out of Michigan.	Returned in two Counties.	Occurred out of Michigan.	Returned in two Counties.	Occurred out of Michigan.	Returned in two Counties.	Occurred out of Michigan.	Returned in two Counties.
Ingham.....	1	1	.....	1	2	.....	2	.....
Ionia.....	1	.....	2	1	.....	.....	.....	.....
Iosco.....	.....	.....	.....	.....	.....	.....	.....	.....
Isabella.....	3	.....	3	.....	1	.....	1	1
Jackeon.....	10	1	4	1	11	.....	3	1
Kalamazoo.....	9	.....	.....	1	3	1	2	.....
Kalkaska.....	.....	.....	.....	.....	.....	.....	.....	.....
Kent.....	23	.....	4	4	36	.....	9	1
Keweenaw.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake.....	.....	.....	.....	.....	.....	.....	.....	.....
Lapeer.....	7	.....	.....	.....	1	.....	2	.....
Leelanaw.....	1	.....	.....	.....	1	.....	1	.....
Lenawee.....	17	1	9	.....	13	.....	6	1
Livingston.....	3	1	2	.....	5	.....	2	1
Mackinac.....	.....	.....	.....	.....	.....	.....	.....	.....
Macomb.....	1	1	1	1	2	.....	.....	.....
Manistee.....	1	.....	1	.....	.....	.....	.....	.....
Manitou.....	.....	.....	.....	.....	.....	.....	.....	.....
Marquette.....	.....	.....	.....	.....	.....	.....	.....	.....
Mason.....	.....	.....	.....	.....	5	.....	.....	.....
Mecosta.....	.....	.....	.....	.....	9	.....	.....	1
Menominee.....	.....	.....	.....	.....	.....	.....	1	.....
Midland.....	.....	.....	.....	.....	.....	.....	.....	.....
Missaukee.....	.....	.....	.....	.....	.....	.....	.....	.....
Monroe.....	4	.....	4	.....	5	.....	1	.....
Montcalm.....	6	1	1	.....	5	.....	.....	.....
Muskegon.....	16	.....	3	.....	10	.....	4	.....
Newaygo.....	5	.....	.....	.....	.....	.....	.....	.....
Oakland.....	3	.....	.....	.....	3	.....	1	.....

**EXHIBIT E.—CONTINUED.—*Births and Deaths,*
*Not elsewhere Compiled.***

COUNTIES.	BIRTHS IN 1871 NOT COMPILED.		DEATHS IN 1871 NOT COMPILED.		BIRTHS IN 1872 NOT COMPILED.		DEATHS IN 1872 NOT COMPILED.	
	Occurred out of Michigan.	Returned in two Counties.	Occurred out of Michigan.	Returned in two Counties.	Occurred out of Michigan.	Returned in two Counties.	Occurred out of Michigan.	Returned in two Counties.
Oceana.....	2	1	.....	.....	2	.....	2	.....
Ontonagon.....	.....	.....	1	.....	.....	.....	.....	.....
Osceola.....	.....	.....	.....	.....	2	.....	1	.....
Ottawa.....	2	.....	.....	.....	4	.....	1	1
Presque Isle.....	.....	.....	.....	.....	.....	.....	.....	.....
Saginaw.....	2	.....	1	.....	6	.....	.....	.....
Sanilac.....	2	.....	.....	.....	1	.....	.....	1
Schoolcraft.....	.....	.....	.....	.....	.....	.....	.....	.....
Shiawassee.....	2	.....	1	.....	4	.....	2	.....
St. Clair.....	10	.....	2	1	10	.....	4	1
St. Joseph.....	8	.....	1	1	5	.....	.....	.....
Tuscola.....	6	.....	.....	.....	3	1	3	.....
Van Buren.....	8	.....	5	.....	2	.....	3	.....
Washtenaw.....	7	.....	2	.....	2	.....	3	.....
Wayne.....	23	.....	.....	.....	1	.....	8	1
Wexford.....	.....	.....	.....	.....	.....	.....	.....	.....

BIRTHS.

The total number of births returned as having occurred in Michigan during the year 1872 was 27,993. It is well known, however, that by the present system of enumerating not all births are recorded. The method of correction used and explained in the previous Report has again been applied, and by that means it is found that the number of births which probably occurred in this State during the year under consideration, was 43,053, as shown in the fourth line of Exhibit A on a following page. If the 28 returned with month of occurrence not stated be included, the whole number is 43,081. The number actually returned is 64.98 per cent. of this number.

Stated in the ordinary popular manner the average number of births may be specified as follows:

Average No. of Children.	As Returned.	As Corrected.
Per quarter.....	6,998.25.....	10,770.25
Per month.....	2,332.75.....	3,590.08
Per week.....	538.33.....	828.48
Per day.....	76.48.....	117.71

Table I. exhibits the actual number and proportion of births returned as having occurred during each quarter of the year 1872, and also of each of the four years preceding.

From this table it will be seen that for the year 1872 a greater number of births were returned than for any previous year. At first thought, one might think that this would necessarily be true,—that as the population of the State increases and the system of registration becomes better understood, the

number of births would constantly increase each year; but the table shows that the next greatest number of births was returned for the year 1869, and that the number for 1871 was even less than for 1870. So far as the registration returns indicate, it seems, then, that there are wide-spread and important causes which very materially influence the birth-rate. It has been noticed in previous Reports that there are causes tending to render the births uniform by seasons of the year, that the birth-rate is probably controlled largely by climatic conditions. Comparing the years with each other, it will be seen that since registration has been in operation in this State there is a marked difference in the number of births in the different years. When these statistics have been collected for a sufficient number of years it will be interesting to study whether the increased or decreased birth-rate sustains any constant relation to climatic differences in the several years, as it has been found to do to seasons of the year.

TABLE I.—Births by Quarters of the Year, exhibiting the Number and Per Cent. of Totals for the years 1868, 1869, 1870, 1871, and 1872, according to the Returns.

TOTALS AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.	
	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.	Number.	Per cent of total.
Totals.....	25,020	100.00	27,098	100.00	26,668	100.00	25,992	100.00	27,993	100.00
March.....	5,501	21.98	5,415	19.98	5,440	20.40	5,412	20.83	5,868	20.96
June.....	5,909	23.61	6,848	25.43	6,491	24.34	5,948	22.48	6,784	24.23
September.....	6,924	27.67	7,853	29.09	7,500	28.12	7,325	27.79	7,948	28.37
December.....	6,628	26.49	7,381	27.24	7,100	26.62	7,446	28.64	7,370	26.33
Unknown.....	58	.23	66	.24	192	.72	66	.25	28	.10
Average ^b	6,255	25.00	6,774	25.00	6,665	25.00	6,498	25.00	6,998	25.00

^a See notes to month of April and Unknown, in Table II.

^b The number in unknown quarter of year included.

BIRTHS.

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TABLE II.—Births during the years 1868, 1869, 1870, 1871, and 1872, according to the returns, exhibiting the Number and Per Cent. of Total, by Months, arranged in order by number, months having the greatest number first.

ORDER.	1868.			1869.			1870.			1871.			1872.		
	Months.	No.	Per ct. of total.	Months.	No.	Per ct. of total.	Months.	No.	Per ct. of total.	Months.	No.	Per ct. of total.	Months.	No.	Per ct. of total.
	Total	25,020	100.00	Total	27,093	100.00	Total	26,423	100.00	Total	25,992	100.00	Total	27,993	100.00
1.....	August ..	2,899	9.58	August..	2,781	10.08	Sept.	2,602	9.75	Dec.	2,689	10.15	August..	2,817	10.06
2.....	Sept.	2,863	9.44	Sept.	2,681	9.89	August..	2,659	9.89	August..	2,686	9.75	Sept.	2,718	9.69
3.....	Dec.	2,283	9.12	Dec.	2,512	9.27	October..	2,490	9.30	Sept.	2,518	9.68	Dec.	2,535	9.23
4.....	October..	2,246	8.97	October..	2,508	9.23	Dec.	2,337	8.65	October..	2,478	9.33	October..	2,429	8.67
5.....	July	2,163	8.64	July	2,471	9.12	July	2,339	8.77	Nov.	2,329	8.96	July	2,413	8.63
6.....	Nov.	2,099	8.38	Nov.	2,361	8.71	May	2,275	8.53	July	2,171	8.35	Nov.	2,357	8.49
7.....	March....	2,043	8.16	May	2,321	8.19	Nov.	2,233	8.37	May	2,046	7.87	May	2,281	8.15
8.....	May	2,037	8.10	June	2,085	7.69	June	2,140	8.09	March....	1,937	7.64	April....	2,268	8.06
9.....	June	1,944	7.76	April....	2,042	7.53	March....	2,099	7.87	April....	1,899	7.80	June	2,250	8.04
10.....	April ..	1,998	7.70	March....	2,005	7.40	April....	2,076	7.73	June	1,898	7.80	March....	2,195	7.84
11.....	February.	1,769	7.03	February.	1,792	6.46	February.	1,737	6.51	January..	1,787	6.68	February	1,899	6.73
12.....	January..	1,699	6.79	January..	1,658	6.11	January..	1,604	6.01	February.	1,683	6.49	January..	1,774	6.84
	Unkn'wn ^b	53	.23	Unkn'wn	66	.24	Unkn'wn	132	.49	Unkn'wn.	66	.25	Unkn'wn	28	.10
	Average..	2,085	8.33	Average..	2,297.75	8.33	Average..	2,231.91	8.33	Average..	2,166	8.33	Average..	2,332.75	8.33

^a The number of births in April, 1868, as published in the Second Registration Report, was 1,607; but this number only represented twenty-five days. Thirty days, at the same rate, would give the number stated in this table.

^b This number was obtained by adding three-twelfths of the number of births in unknown months, stated in the First Registration Report, to the whole number stated in the second Report, which was for the remaining nine months of the year 1868.

The exceptionally small birth-rate in Michigan, during the year 1871, was probably connected with the exceptionally large death-rate during the last six months of the year 1870. The decreased number of births in 1871 was particularly noticeable for the months of April, May, June, and July. The conceptions for births in these months occurred mainly in the months of July, August, September, and October, 1870. By referring to the table of Deaths by Months, it will be seen that an unusual number and proportion of deaths were returned as having occurred in those months. As we do not know the exact number of inhabitants in each year, we cannot compare the birth or death rates accurately by years. If we add together the deaths for the years 1869 and 1871 and divide the sum by two, we find an average of 9,436 as a probable number to have occurred in 1870. The number returned for that year was 10,766, or 1,330 more than the average of the preceding and succeeding years. Treating the births in the same manner, we find that the births returned for 1871 were 1,336 less than the average of the preceding and succeeding years. The very close correspondence between the numbers by which the deaths in 1870 were increased, and the births in 1871 diminished, is probably only a singular coincidence, for there is no necessary connection of such close character between an increased death-rate at all ages and a decreased birth-rate. In fact, in last Report, on page 98, mention was made of what seemed to be evidence that the birth-rate was increased by epidemics of cholera. It may be true that while the prevalence of certain diseases tends to increase, certain others tend to materially decrease the birth-rate. The question is worthy of study, not only for the advancement of our knowledge relative to conditions unfavorable to reproduction, but because it may add to our knowledge of the essential nature of certain diseases, and thus aid efforts for their prevention.

In Exhibit 1 may be seen the diseases to which the increased death-rate in 1870 was mainly due, and whether the death-rate was greater therefrom in the months of July, August, September, and October, 1870, than in the same

months of 1869 and 1871. The greater part of the increased mortality seems to have been in those months, and the most prominent diseases from which it resulted were scarlet fever, consumption, typhoid fever, dysentery, diarrhea, and diseases of the bowels and brain.

EXHIBIT 1.—*Relative to certain Deaths in 1869, 1870, and 1871; Exhibited because of decreased Conceptions in Months of July, August, September, and October of the Year 1870.*

CAUSES OF DEATH.	Excess in 1870 over 1869.	Excess in 1870 over 1871.	CERTAIN MONTHS IN 1869 AND 1871 IN WHICH THERE WERE A LESS NUMBER OF DEATHS THAN IN SAME MONTHS OF 1870.
Brain disease....	10	41	July, Aug., Sept., and Oct., 1869 and 1871.
Cephalitis.....	7	19	July, Aug., Sept., and Oct., 1869 and 1871.
Convulsions.....	12	11	July, Aug., and Oct., 1869; Aug. and Sept., 1871.
Fits.....	18	33	July and Sept., 1869; July, Aug., and Sept., 1871.
Cholera Infantum	73	52	July, Aug., Sept., and Oct., 1869 and 1871.
Cholera Morbus..	9	14	July and Aug., 1869; July, Aug., and Sept., 1871.
Enteritis.....	63	3	July, Aug., Sept., and Oct., 1869 and 1871.
Diarrhea.....	88	85	July, Aug., Sept., and Oct., 1869 and 1871.
Diarrhea, Chronic	13	6	Aug., Sept., and Oct., 1869 and 1871.
Dysentery.....	87	201	July, Aug., and Sept., 1869, and Oct., 1871.
Fever, Billous...	24	10	July, Sept., and Oct., 1869; Sept. and Oct., 1871.
Fever, Intermitt.	21	23	July, Aug., Sept., and Oct., 1869 and 1871.
Fever, Typhoid..	137	217	July, Aug., Sept., and Oct., 1869 and 1871.
Scarlet Fever....	600	156	July, Aug., Sept., and Oct., 1869 and 1871.
Puerperal Fever.	14	9	Aug., Sept., and Oct., 1869; July and Aug., 1871.
Inflam. of Uterus	8	5	Aug. and Oct., 1869; July and Oct., 1871.
Consumption....	216	148	July, Aug., Sept., and Oct., 1869 and 1871.
Scrofula.....	5	22	July and Oct., 1869; July, Sept., and Oct., 1871.
Dyspepsia.....	18	17	Aug., Sept., and Oct., 1869; July, Aug., Sept., and Oct., 1871.
Liver Disease....	25	5	July, Aug., and Oct., 1869; July and Oct., 1871.
Total.....	1,390	1,076	
All Causes....	1,621	1,038	July, Aug., Sept., and Oct., 1869 and 1871.

SIXTH REGISTRATION REPORT.

EXHIBIT 2.—Births in Michigan by months during the years 1870, 1871, and 1872, and Marriages and Deaths during months of conception of the same,—all months equalized to uniform length of 30.44 days.

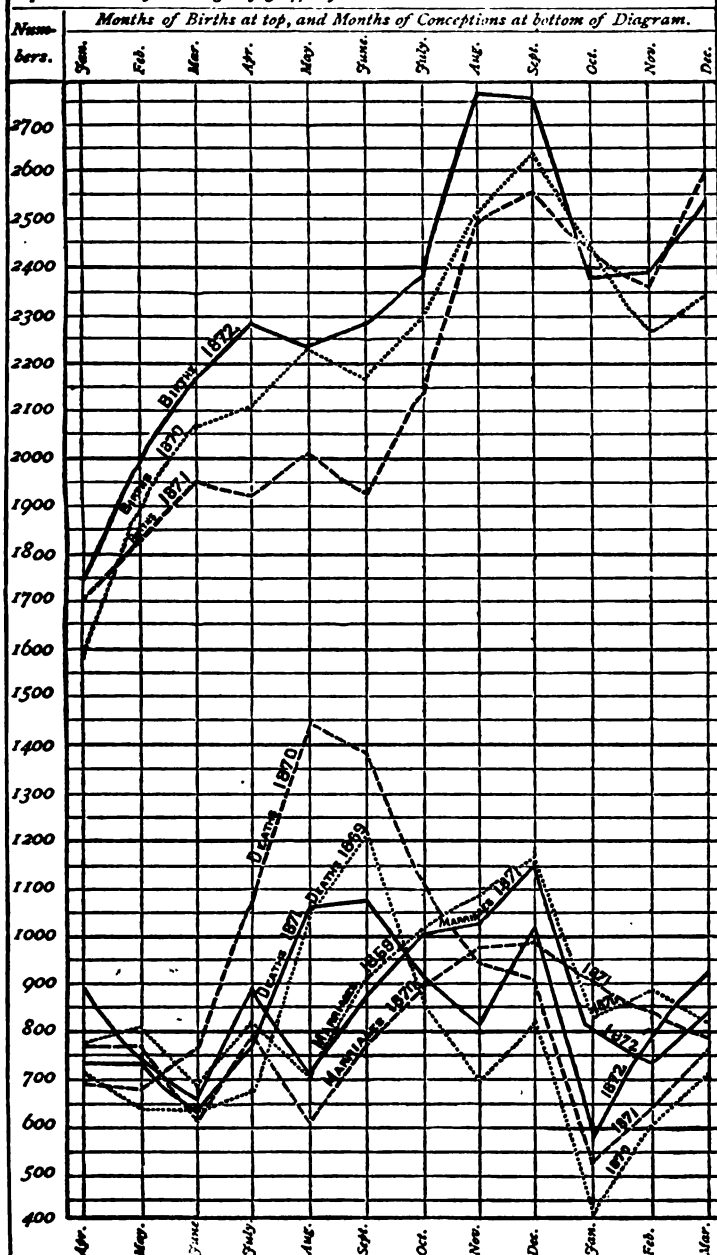
	Total. ^a	Months.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births equalized to months of uniform length.....	(1870	1,574	1,838	2,061	2,106	2,324	2,171	2,090	2,518	2,441	2,485	2,860	2,244
	1871	1,706	1,834	1,951	1,937	2,009	1,926	2,133	2,490	2,555	2,484	2,864	2,591
	1872	1,749	1,996	2,155	2,266	2,240	2,383	2,370	2,768	2,753	2,324	2,391	2,528
		April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Marriages ^b equalized to months of uniform length.....	(1869 & 1870	774	801	687	617	707	938	1,018	1,080	1,160	881	890	818
	1870 & 1871	770	770	681	705	605	768	808	977	902	908	846	708
	1871 & 1872	695	744	655	805	776	874	1,008	1,088	1,152	611	741	630
Deaths equalized to months of uniform length.....	(1869 & 1870	792	640	639	675	1,049	1,212	1,256	695	621	414	602	711
	1870 & 1871	688	677	766	1,066	1,449	1,865	1,112	948	912	581	620	768
	1871 & 1872	783	737	685	774	1,065	1,071	916	810	1,019	591	794	924

^a Unknown months excluded.

^b Marriages corrected up to May 1, 1875.

DIAGRAM No. 1.

Births in Michigan during the years 1870, 1871 and 1872, and the Marriages and Deaths for the months in which the conceptions for the births occurred; all months equalised to uniform length of 30.44 days each.



Designed by Henry B. Baker.

In the Fourth Registration Report a diagram (No. 1) was published, exhibiting the births by months for the years 1868, 1869, and 1870. In the Report for 1871 no such diagram appeared, and it was not until Diagram No. 1 in this Report was constructed that the peculiar falling off of births in April, May, June, and July, 1871, was made particularly noticeable. This is why it is studied in this Report, and it is a slight example of one of the aids received from graphic illustrations.

By Diagram No. 1 in this Report, it will be seen that although there seems to have been some relation between the deaths in the months of July, August, September and October, 1870, and the births in 1871, there is not, as a rule, any very close relation between the births and the deaths by months. It is very probable, however, that a closer relation would appear if the same proportion of the births and deaths were returned for all of the months. This is evident from a table and diagram, constructed for study in this office but not yet published, similar to Exhibit 2 and Diagram No. 1, except that the births and deaths were corrected for omissions in enumeration. It will be seen from Diagram No. 1, that the marriages also were decreased in the months of August, September, October, November, and December, 1870; but the decrease is not sufficient to account for the entire decrease of the births. The increased death-rate may, in this instance, account for the decrease of both marriages and births. The marriages in each year, from July to the following March, seem to bear a general relation to the fruitful conceptions; otherwise they appear to be differently influenced by the conditions connected with season of year.

The same principle of correction employed in the previous Report is applied to the births returned for the year 1872, and the results may be seen in Exhibits A, B, and C. The correction is based upon the evidence that omissions occur in proportion to the time which elapses before the enumeration is made by the Supervisors. It is assumed that the relation

between the numbers of births for December, 1871, and January, 1872, would be the same as was found for December, 1869, and January, 1870, by the census of June 1, 1870, if the enumeration was made in the same manner as it was by the census. Inasmuch as the births in December are enumerated after the lapse of about the same time as passed before the enumeration for that month by the census, and as just one year is allowed to pass after the enumeration of the births in December before the births for the following month of January are enumerated, the per centum by which the births returned should be increased for omissions due to one year's time is found as follows:

TOTAL BIRTHS.

Census.			Registration.			
Dec., 1869	:	Jan., 1870	:	Dec., 1871	:	Jan., 1872
3,003	:	3,305	:	2,639	:	x=2,904.

The number returned for January, 1872, was 1,774, which subtracted from 2,904 leaves 1,130, which is 63.69 per cent. of the number returned. This is the per cent. by which the total births returned are to be increased for omissions because of one year's time between occurrence and enumeration. The births are believed to be mainly enumerated by the Supervisors in May, so that the births in May, 1872, were enumerated just one year after that time. The total births returned for that month are therefore increased by 63.69 per cent., and the births for the other months are increased in proportion to the time between the months of occurrence and enumeration. The application and results of this correction may be studied in Exhibit A.

The average per cent. to be added to the total births, by the correction in Exhibit A, is, theoretically, 55.74. Practically, the births are increased thereby 53.95 per cent. This slight discrepancy is due to the fact that the numbers of births returned for those months where the per cent. is greatest are less than for the months where the per cent. is least. The smallest numbers being, as a rule, multiplied by the largest per cent., the correction is slightly lessened thereby.

Inasmuch as the omissions in enumeration may be greater for one sex than for the other, the correction for the total births has not been assumed to be that for each sex. The correction to be applied to the births of males was obtained as follows :

BIRTHS OF MALES.

Census.		Registration.	
Dec., 1869	Jan., 1870.	Dec., 1871	Jan., 1872.
1,518	1,534	1,414	x=1,615.

The number of births of males returned for January, 1872, was 910, which subtracted from 1,615 leaves 705, which is 77.47 per cent. of the number returned ; and that per cent. is to be added to the births for May as previously explained, because their enumeration is one year after the month of their occurrence. The continuation of this correction will be found in Exhibit B.

The correction for the births of females was found as follows :

BIRTHS OF FEMALES.

Census.		Registration.	
Dec., 1869	Jan., 1870.	Dec., 1871.	Jan., 1872.
1,485	1,571	1,220	x=1,291.

The number of births of females returned for January, 1872, was 863, which subtracted from 1,291 leaves 428, which is 49.59 per cent. of the number returned. The births of females returned for May are therefore to be increased by 49.59 per cent. The application and results of this correction are to be found in Exhibit C.

The population of this State is constantly increasing. The births have therefore to be "equalized for increase of population" in order to judge of the real birth-rate by months. The calendar months being of unequal length, in order that a just comparison may be made of the births by months, they must be "equalized to months of uniform length;" and, that the births for the year may not thereby be made to appear materially different, the months are made to include 30.44 days,—one-twelfth of a year.

EXHIBIT A.—*Births in Michigan during the Year 1872, as Returned, as Corrected for Omissions in Enumerating, the same Equalized for Increase of Population during the Year covered by the Returns, and the Births, as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 Days; also, indicating some of the steps by which these results have been reached. (Stillbirths and Children of unknown Sex included.)*

	YEAR 1872.												Total.
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Births as returned by Registration officers.....	1,774	1,399	2,195	2,253	2,281	2,250	2,418	2,817	2,718	2,423	2,857	2,585	
Per cent. of births to be added for correction for time elapsing before enumeration.....	84.92	79.61	74.80	68.99	68.69	58.89	58.08	47.77	42.46	37.16	31.95	26.54	
Number of births to be added for above correction.....	1,506	1,512	1,631	1,554	1,458	1,314	1,281	1,346	1,152	903	751	686	
Births, if enumerated in months of occurrence.....	3,280	2,911	3,826	3,807	3,734	3,564	3,694	4,163	3,865	3,380	3,108	3,271	
Per cent. of births to be added to equalize them to population at close of year.....	4.21	3.86	3.51	3.16	2.91	2.46	2.11	1.76	1.41	1.06	.71	.35	
Births to be added to equalize them to population at close of year.....	188	183	184	120	105	88	78	73	54	35	23	11	
Births, as corrected, equalized to population at close of year.....	3,418	3,543	3,960	3,927	3,889	3,652	3,772	4,236	3,919	3,465	3,180	3,282	
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....	-56	+1.44	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56	
Number by which the births should be increased or diminished to equalize them to months of uniform length.....	-62	+182	-73	+58	-69	+54	-68	-77	+57	-61	+46	-59	
Births corrected and equalized, equalized to months of uniform length.....	3,856	3,725	3,888	3,985	3,770	3,706	3,704	4,139	3,976	3,804	3,176	3,223	

a Births in unknown months (26) excluded.

EXHIBIT B.—Births of Males in Michigan during the Year 1872, as Returned, as Corrected for Omissions in Enumerating; the same equalized for Increase of Population during the Year covered by the Returns; and the Births, as thus corrected and equalized for the several Months, equalized for Months of 30.44 days each.

	TOTAL.	YEAR 1872.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers.....	14,446	910	987	1,148	1,188	1,198	1,157	1,856	1,481	1,861	1,938	1,185	1,818
Per cent. of births to be added for correction for time elapsing before enumeration.....		108.39	94.84	90.83	83.98	77.47	71.02	64.56	56.11	51.65	45.20	38.74	32.29
Number of births to be added for above correction.....	9,508	940	956	1,088	997	928	892	880	883	708	579	459	494
Births, if enumerated in months of occurrence.....	23,954	1,850	1,943	2,186	2,185	2,126	1,979	2,116	2,968	2,064	1,861	1,644	1,787
Per cent. of births to be added to equalize them to population at close of year.....		4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.85
Births to be added to equalize them to population at close of year.....	500	78	75	77	69	60	49	45	40	29	20	12	6
Births, as corrected, equalized to population at close of year	24,514	1,928	2,018	2,263	2,254	2,186	2,028	2,161	2,808	2,093	1,881	1,656	1,793
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....		-56	+1.44	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56
Number of births added or subtracted to equalize them to months of uniform length.....	-39	-85	+104	-41	+38	-29	+30	-39	-43	+31	-34	+34	-31
Births corrected and equalized, equalized to months of uniform length.....	24,475	1,898	2,122	2,222	2,292	2,147	2,063	2,122	2,261	2,124	1,847	1,690	1,712

a Births in unknown months (11) excluded.

EXHIBIT C.—Births of Females in Michigan during the year 1872, as Returned, as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the year covered by the Returns; and the Births as thus Corrected and Equalized for the several months, equalized for months of 30.44 days each.

	TOTAL.	YEAR 1872.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers.....	18,441	563	910	1,043	1,039	1,076	1,085	1,123	1,890	1,844	1,187	1,157	1,963
Per cent. of births to be added for correction for time elapsing before enumeration.....	66.12	61.99	57.86	53.73	49.59	45.46	41.88	37.90	33.06	28.93	24.90	20.87	20.87
Number of births to be added for above correction.....	5,633	571	564	603	569	535	498	464	518	444	329	287	961
Births, if enumerated in months of occurrence.....	19,074	1,434	1,474	1,646	1,608	1,613	1,578	1,587	1,898	1,768	1,466	1,444	1,963
Per cent. of births to be added to equalize them to population at close of year.....	4.81	3.86	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.85
Births to be added to equalize them to population at close of year.....	483	60	57	58	51	45	39	38	38	25	16	10	5
Births as corrected, equalized to population at close of year	19,556	1,494	1,531	1,704	1,659	1,658	1,617	1,620	1,936	1,818	1,482	1,454	1,969
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....	-56	+1.44	-56	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56
Number of births added or subtracted to equalize them to months of uniform length.....	-81	-37	+79	-91	+25	-90	+24	-29	-25	+27	-27	+21	-29
Births corrected and equalized, equalized to months of uniform length.	19,475	1,457	1,610	1,673	1,704	1,668	1,641	1,591	1,901	1,840	1,455	1,475	1,900

* Births in unknown months (19) excluded.

EXHIBIT D.—Births of Males and Females in Michigan during the Year 1872, Corrected for Omissions in Enumerating, and, as thus Corrected, Equalized to Months of uniform length; also, the total Births of both Sexes as thus Corrected and Equalized. Births of Children of unknown Sex not included.

	YEAR 1872.											
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL.												
Births of males if enumerated in months of occurrence.....	1,850	1,943	2,186	2,185	2,126	1,979	2,116	2,268	2,064	1,861	1,644	1,787
Days and hundredths by which the months should be increased or diminished to equalize them to a uniform length.....	-56	+1.44	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56
Number of births added or subtracted to equalize the months to a uniform length.....	-88	+100	-89	+82	-88	+29	-88	-41	+80	-84	+24	-81
Births of males corrected and equalized to months of uniform length.....	1,817	2,043	2,147	2,217	2,038	2,008	2,078	2,222	2,094	1,837	1,668	1,706
Births of females if enumerated in months of occurrence.....	1,484	1,474	1,646	1,628	1,618	1,578	1,587	1,898	1,755	1,466	1,444	1,528
Days and hundredths by which the months should be increased or diminished to equalize them to a uniform length.....	-56	+1.44	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56
Number of births added or subtracted to equalize the months to a uniform length.....	-26	+76	-80	+24	-88	+23	-29	-34	+26	-26	+21	-28
Births of females corrected and equalized to months of uniform length.....	1,408	1,550	1,616	1,632	1,535	1,601	1,558	1,869	1,814	1,440	1,465	1,495
Births of males corrected and equalized to months of uniform length.....	1,817	2,043	2,147	2,217	2,038	2,008	2,078	2,222	2,094	1,837	1,668	1,706
Births corrected and equalized to months of uniform length (excluding unknown sex).....	2,225	2,598	2,763	2,899	2,673	2,609	2,636	4,081	2,908	2,267	2,133	2,201

TABLE III.—*Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1872, and the Marriages solemnized in the Months of the Years 1871 and 1872 in which the conceptions probably occurred. (Births in unknown Month, of Children of unknown Sex, and Marriages in unknown Month excluded.)*

BIRTHS FOR 1873 EQUALIZED TO MONTHS OF 30.44 DAYS EACH, IN ORDER BY NUMBER,—GREATEST FIRST.				No. of Marriages from April, 1871, to March, 1873, equalized to months of 30.44 days each.
BIRTHS. *		CONCEPTIONS.		
Year and Months.	Number.	Months.	Year.	
Year	27,326	.....	.....	9,958
August.....	2,760	November	1871	963
September.....	2,745	December	1871	1,067
December.....	2,528	March	1873	814
November.....	2,376	February	1873	726
October	2,375	January	1872	790
July	2,366	October.....	1871	950
Average	2,319	.....	.....	883
April	2,290	July	1871	868
June.....	2,275	September	1871	845
May	2,235	August	1871	698
March	2,151	June.....	1871	640
February	1,994	May	1871	735
January	1,741	April	1871	888

* Excluding births in unknown months and of unknown sex,—106, and 61 lost in equalizing. (See foot-note "a" to Exhibit O.)

† Exceptions to statement that more than an average number of conceptions appear for months in which more than an average number of marriages were solemnized, and less than an average number of conceptions in months in which less than an average number of marriages were solemnized.

Table III. and Exhibit E are similar to those in last Report. They bear upon the question as to the extent of physiological influences in modifying the marriage rate, by seasons, as well as the influence of increased marriage rate upon the birth-rate. In this instance the relation seems to be closer after the cor-

rection, which is taken account of in the Exhibit, but not in Table III. Diagram No. 1 exhibits the relation as it is before the correction is made. A diagram exhibiting the relation as it appears after corrections have been made, has been constructed and studied, but is not published.

EXHIBIT E.—*The Relation between the Births in Michigan during the Year 1872, Corrected for Omissions in Enumerating, and the Marriages solemnized in the Months of the Years 1871 and 1872, in which the conceptions probably occurred. (Births in unknown Month, of Children of unknown Sex, and Marriages in unknown Month excluded.)*

BIRTHS FOR 1872, CORRECTED AS IF ENUMERATED IN MONTHS OF OCCURRENCE, EQUALIZED TO MONTHS OF UNIFORM LENGTH, IN ORDER BY NUMBER,—GREATEST FIRST.				No. of Marriages from April, 1871, to March, 1872, equalized to Months of 30.44 days each.
BIRTHS. ^a		CONCEPTIONS.		
Year and Months.	Number.	Months.	Year.	
Year.....	42,958	.....	.....	9,936
August.....	4,081	November.....	1871	908
September.....	3,908	December.....	1871	1,067
April.....	3,869	July.....	1871	868
March.....	3,768	June..... ^b	1871	640
May.....	3,678	August..... ^b	1871	696
July.....	3,636	October.....	1871	959
June.....	3,609	September.....	1871	845
February.....	3,598	May..... ^b	1871	735
Average.....	3,580	.....	.....	632
October.....	3,267	January.....	1872	790
January.....	3,225	April..... ^b	1871	868
December.....	3,201	March.....	1872	814
November.....	3,183	February.....	1872	766

^a Births in unknown months and of children of unknown sex excluded.

^b Exceptions to statement that more than an average number of conceptions appear for months in which more than an average number of marriages were solemnized, and less than an average number of conceptions in months in which less than an average number of marriages were solemnized.

TABLE IV.—*Exhibiting, by Counties and by Sex, the Number of Children Returned as having been born in Michigan during the Year, and in each Month of the Year ending December 31, 1872 (Stillbirths included).*

STATE AND COUNTIES.	SEX.	Year 1872.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State ^a	Total....	27,998	1,774	1,899	2,195	2,438	2,821	2,950	2,418	2,817	2,718	2,438	2,857	2,835	28
	Males....	14,457	910	967	1,148	1,188	1,157	1,286	1,481	1,361	1,289	1,289	1,185	1,313	11
	Females....	13,438	863	910	1,048	1,090	1,078	1,085	1,123	1,850	1,844	1,187	1,187	1,293	12
	Unknown....	88	1	2	4	6	5	8	4	6	8	9	15	10	5
Alcona ^b	Excess of Males....	1,004	47	77	105	159	120	73	163	51	17	145	28	51	- 1
	Total....	83	3	3	3	5	3	3	1	4	3	2	4	2	.....
	Males....	16	1	.....	3	3	3	3	.....	2	1	2	2	1	.....
	Females....	16	2	3	.....	3	.....	.....	1	2	1	.....	2	1	.....
Allegan ^b	Total....	666	36	29	57	56	61	49	36	76	71	67	51	65	2
	Males....	383	16	20	36	29	29	26	20	26	26	24	28	33	.....
	Females....	289	20	18	21	27	23	23	16	40	25	21	23	23	2
	Unknown....	8	1	9

BIRTHS BY COUNTIES.

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Alpena	Total	54	1	5	4	8	10	8	5	9	11
	Males	26	3	1	6	4	2	2	8
	Females	28	1	2	3	2	6	6	3	3	3
Antrim	Total	60	4	3	5	3	7	5	6	6	3	3	5	6
	Males	35	3	2	3	6	4	3	3	4	1	2	2	2	.....
	Females	25	1	.....	2	2	3	2	3	2	2	1	3	4	.....
Barry	Total	463	23	29	23	23	23	43	51	48	92	40	33	37	.....
	Males	245	16	14	19	17	17	31	31	25	23	30	21	23	.....
	Females	218	6	15	20	16	15	31	30	23	20	20	17	15	.....
Bay	Total	883	63	61	63	65	65	63	63	63	63	76	63	113	.....
	Males	409	34	30	29	30	27	30	35	31	31	39	30	63	.....
	Females	423	29	31	23	34	33	35	23	32	47	37	35	49	.....
Benzie	Total	75	4	6	6	5	5	7	5	13	8	5	9	4	.....
	Males	40	1	3	3	5	3	6	1	7	3	2	5	3	.....
	Females	35	3	4	4	.....	1	1	4	5	5	3	4	1	.....
Berrien	Total	670	47	43	55	60	49	49	50	66	85	57	56	53	1
	Males	343	24	16	23	26	27	29	23	32	45	30	23	30	.....
	Females	327	23	26	32	34	22	20	23	34	40	27	23	23	.....
Unknown	Total	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	Males	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

a For counties and townships from which no returns of births were received, see Table XXI.

b Except of townships not represented by returns of births in 1873. See Table XXI.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	SEX.	Year 1871.	MONTHS.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Branch	Total	511	47	33	40	33	35	43	46	49	49	43	41	47
	Males	279	19	13	19	18	18	25	26	25	29	25	31	26
	Females	331	23	20	21	15	17	18	20	24	20	18	9	21
	Unknown	1	—	—	—	—	—	—	—	—	—	—	1	—
Calhoun	Total	641	36	37	55	52	45	43	57	65	66	64	57	65
	Males	343	20	18	34	30	24	23	33	41	30	35	26	30
	Females	298	16	19	21	22	21	19	25	24	36	29	31	35
	Unknown	339	21	26	27	26	23	23	34	26	29	41	29	30
Cass	Total	174	13	11	14	16	16	11	17	11	15	23	12	16
	Males	163	9	15	13	10	13	11	17	15	14	19	16	12
	Females	3	—	—	—	—	—	—	—	—	—	—	1	3
	Unknown	3	—	—	—	—	—	—	—	—	—	—	1	3
Charlevoix	Total	60	1	5	1	3	6	6	11	8	8	3	6	5
	Males	32	—	4	—	2	3	3	6	1	5	3	3	3
	Females	28	1	1	1	1	4	3	5	4	3	—	3	2
	Unknown	—	—	—	—	—	—	—	—	—	—	—	—	—

BIRTHS BY COUNTIES.

21

Cheboygan	Total	74	10	6	7	9	3	4	4	5	3	6	5	7
	Males	26	3	3	6	7	3	3	1	3	3	1	3	3
	Females	37	7	4	1	1	1	1	3	3	5	5	3	4
	Unknown	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Chippewa	Total	76	8	3	10	7	5	8	4	9	8	5	3	6
	Males	42	6	2	8	2	4	3	2	3	6	3	1	3
	Females	34	2	1	2	5	1	6	2	6	2	2	2	3
	Unknown	19	1	1	3	1	.....	3	3	3	3	2	.....	1
Clare	Total	9	1	.....	1	.....	.....	1	.....	2	1	2	.....	1
	Males	10	.....	1	2	1	.....	3	3	.....	1	.....	.....	.....
	Females	513	24	29	44	43	50	43	50	50	54	37	36	50
	Unknown	233	13	14	23	27	23	21	31	26	23	19	24	30
Clinton	Total	233	13	15	16	21	23	23	19	24	31	18	13	20
	Males	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Unknown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Delta	Total	523	39	23	25	43	50	43	43	57	48	41	50	37
	Males	274	17	23	11	25	26	23	23	29	21	23	30	13
	Females	243	23	9	24	23	24	19	13	28	27	18	17	19
	Unknown	5	.....	.....	.....	.....	.....	1	1	.....	.....	.....	3	.....
Eaton	Total	51	1	.....	4	5	7	6	4	7	6	4	3	4
	Males	21	.....	.....	.....	3	3	3	3	1	4	3	1	1
	Females	30	1	.....	4	2	4	3	3	6	3	1	2	3
	Unknown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Except of townships not represented by returns of births in 1872. See Table XXI. | b No returns.

SIXTH REGISTRATION REPORT.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	Sex.	Year 1872.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Genesee.....	Total.....	599	23	34	34	42	64	66	67	65	45	46	54	51	3
	Males.....	309	19	19	16	31	34	33	40	31	26	24	29	23	1
	Females.....	288	9	15	18	31	30	33	27	33	19	22	25	28	2
	Unknown.....	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
Grand Traverse.....	Total.....	83	3	7	7	9	7	14	4	9	5	6	8	5	.....
	Males.....	41	1	2	3	6	3	10	2	3	4	2	2	3	.....
	Females.....	42	2	5	4	2	4	4	2	6	1	4	6	2	.....
	Unknown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gratiot.....	Total.....	351	34	23	26	26	22	35	31	29	35	29	24	34	.....
	Males.....	179	13	13	15	11	12	15	20	13	23	13	12	16	.....
	Females.....	172	16	10	11	15	10	20	11	17	15	17	12	18	.....
	Unknown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hillsdale.....	Total.....	543	36	47	43	57	39	41	41	45	49	57	45	43	.....
	Males.....	273	16	24	20	29	13	20	31	25	24	23	24	24	.....
	Females.....	270	20	23	23	28	21	21	30	20	25	29	21	19	.....
	Unknown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Houghton.....	Total.....	463	21	32	28	43	30	34	43	43	49	43	39	55	3
	Males.....	237	13	17	11	31	13	15	24	23	26	22	19	23	1
	Females.....	224	8	15	17	33	16	19	19	21	23	21	20	32	1
	Unknown.....	2

BIRTHS BY COUNTIES.

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Huron.....	Total.....	323	27	29	33	33	43	25	19	28	27	37	18	21
	Males.....	178	16	21	17	17	20	14	9	9	18	17	11	9
	Females..	145	11	8	15	15	23	11	10	14	9	10	7	13	.....
Ingham.....	Total.....	549	46	48	45	48	40	86	61	53	44	41	43	45	.....
	Males.....	295	30	26	23	22	28	15	33	21	23	23	21	26	.....
	Females..	259	16	22	23	23	17	21	28	31	21	19	22	19	.....
Ionia.....	Unknown	3	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....
	Total.....	633	43	36	38	51	47	50	54	75	64	68	51	55	1
	Males.....	321	18	19	21	26	23	31	28	35	32	38	28	27	.....
Iosco.....	Total.....	299	24	17	13	25	23	19	36	40	32	25	23	28	.....
	Males.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
	Unknown	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Isabella.....	Total.....	68	5	11	7	8	3	5	3	5	8	4	4	6	.....
	Males.....	43	3	7	3	6	3	4	.....	3	5	4	3	4	.....
	Females..	25	2	4	4	2	.....	1	3	2	3	.....	3	2	.....
Jackson.....	Total.....	128	9	8	16	5	8	13	13	19	13	5	9	13	.....
	Males.....	66	4	6	7	4	6	6	6	10	5	3	5	5	.....
	Females..	61	5	2	9	1	2	7	6	9	7	2	4	6	.....
.....	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Total.....	687	36	47	47	63	41	61	63	75	70	53	73	60	1
	Males.....	345	18	18	19	33	20	36	27	44	33	35	31	31	.....
	Females..	343	18	29	28	29	21	25	35	31	37	17	42	29	1

* Except of townships not represented by returns of births in 1872. See Table XXI.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	SEX.	Year 1872.	MONTHS.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Kalamazoo	Total	824	86	41	47	42	51	59	46	65	63	58	60	57
	Males.....	311	16	21	26	28	21	33	25	28	33	29	28	28
	Females..	310	20	19	19	19	30	26	21	37	29	29	32	29
	Unknown ..	3	.....	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kalkaska	Total	27	.....	2	3	5	4	4	3	1	3	1	1	1
	Males.....	16	.....	1	1	4	3	2	3	1	3	.....	.....	.....
	Females..	11	.....	1	2	1	1	2	.....	.....	1	1	1	1
	Unknown ..	1,290	78	94	101	86	108	108	98	140	133	123	101	121
Kent	Total	637	43	52	49	45	61	47	44	71	74	63	47	68
	Males.....	629	36	43	52	41	46	56	54	68	58	64	54	53
	Females..	4	.....	.....	.....	.....	1	.....	.....	1	.....	3	.....	.....
	Unknown ..	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Keweenaw	Total	90	3	4	10	9	6	5	11	7	14	6	5	5
	Males.....	44	4	6	3	5	3	4	7	6	3	3	3
	Females..	46	4	4	4	4	1	3	7	9	4	3	3
	Unknown

BIRTHS BY COUNTIES.

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Lake.....	Total.....	24	1	1	4	4	1	3	1	1	2	5	1
	Males.....	13	1	3	3	1	5
	Females.....	11	1	1	1	1	3	1	1	1
Lapeer.....	Total.....	414	29	21	23	32	43	34	41	49	49	30	33	29	1
	Males.....	213	13	14	9	15	27	13	13	25	20	21	17	15	1
	Females.....	193	11	7	14	17	16	16	23	24	29	9	15	13	.....
Leechaw.....	Unknown.....	3	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	1	.....
	Total.....	133	3	11	16	14	8	13	12	16	15	13	13	16	.....
	Males.....	90	3	3	6	9	3	9	5	12	6	6	8	6	.....
Lenawee.....	Females.....	73	5	3	10	5	6	4	7	4	9	6	4	10	.....
	Total.....	301	45	43	75	57	71	71	75	83	69	73	67	67	.....
	Males.....	426	23	21	41	26	40	33	41	45	35	50	37	36	.....
Livingston.....	Females.....	373	23	23	34	31	31	33	33	33	34	23	30	31	.....
	Unknown.....	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....
	Total.....	330	29	17	33	35	35	33	23	37	50	35	27	33	.....
Mackinac.....	Males.....	201	14	10	19	16	17	14	10	13	34	19	9	21	.....
	Females.....	179	15	7	14	19	13	14	13	19	16	16	13	11	.....
	Unknown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macomb.....	Total.....	533	29	44	53	44	51	36	31	63	49	44	57	43	1
	Males.....	296	13	13	22	22	33	13	23	37	27	26	23	25	.....
	Females.....	257	16	26	24	22	23	13	9	31	22	13	29	13	1

a Except of townships not represented by returns of births in 1873. See Table XXI. | b No returns.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	SEX.	YEAR 1873.	MONTHS.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Manistee.	Total....	240	10	23	23	24	19	20	23	16	17	24	18	94
	Males....	123	7	16	11	14	10	11	7	6	14	14	9	13
	Females....	108	3	7	13	10	9	9	15	10	3	10	9	11
Manitou.	Total....	15	.....	.....	.....	2	1	2	2	2	.....	2	2	2
	Males....	8	.....	.....	.....	2	.....	2	1	1	.....	.....	.....	2
	Females....	7	.....	.....	.....	.....	1	.....	1	1	.....	2	2	.....
Marquette.	Total....	563	33	30	41	50	63	44	44	41	53	44	53	63
	Males....	311	14	14	26	33	33	23	29	23	26	23	30	33
	Females....	256	24	16	15	18	30	21	15	18	26	21	23	29
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mason.	Total....	148	6	15	18	10	10	12	16	17	14	10	7	18
	Males....	73	5	7	6	3	3	6	8	10	10	6	2	6
	Females....	76	1	3	12	7	7	6	8	7	4	4	5	7
Mecosta.	Total....	171	9	13	15	9	14	14	15	20	14	10	23	16
	Males....	92	4	8	7	3	10	8	8	9	10	6	12	7
	Females....	79	5	4	3	4	6	7	11	4	4	11	9

BIRTHS BY COUNTIES.

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Menominee.....	Total....	29	2	3	4	3	3	4	1	1	3	1	4	3
	Males....	16	1	3	3	1	3	1	1	1	3	1
	Females....	13	1	1	3	3	3	1	2	1	1
	Total....	96	6	4	7	3	12	9	13	13	6	6	7	10	.....
Midland.....	Males....	55	5	1	4	1	6	6	7	6	5	5	3	7	.....
	Females....	41	1	3	3	3	6	3	5	6	1	3	5	3	.....
Missaukee.....	Total....	10	.....	1	.....	1	.....	1	1	1	.....	4	.....	1	.....
	Males....	4	.....	1	.....	1	.....	.....	.....	.....	.....	1	.....	1	.....
	Females....	6	.....	.....	.....	.....	.....	1	1	1	.....	3	.....	.....	.....
	Total....	688	33	53	36	55	43	45	56	33	55	53	53	57	.....
Monroe.....	Males....	318	23	33	18	26	19	23	32	40	31	32	23	19	.....
	Females....	330	15	20	18	29	24	25	24	43	24	26	35	38	.....
	Total....	325	11	37	26	26	28	33	39	28	43	39	23	21	1
	Males....	153	5	12	15	14	13	10	18	18	17	15	9	6	1
Montcalm.....	Females....	173	6	15	11	13	16	18	21	10	26	14	13	15	.....
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
	Total....	271	14	17	14	31	24	33	37	25	34	26	23	34	.....
	Males....	136	5	8	5	13	14	13	15	10	16	16	14	9	.....
Muskegon.....	Females....	134	9	9	9	9	10	10	13	15	18	10	8	15	.....
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....

* Except of townships not represented by returns of births in 1872. See Table XXI.

BIRTHS BY COUNTIES.

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Ottawa	Total.....	780	46	67	63	56	81	63	78	75	85	67	68	78
	Males.....	428	34	33	36	29	29	40	53	40	46	28	33	39
	Females.....	354	29	34	36	27	32	23	20	35	37	39	29	41	.....
	Unknown.....	8	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	1	.....	.....
Presque Isle	Total.....	26	1	3	.....	3	5	3	3	1	4	3	3	.....	.....
	Males.....	13	.....	.....	.....	1	3	1	3	.....	3	3	1	.....	.....
	Females.....	14	1	3	.....	2	2	1	.....	1	2	1	2	.....	.....
	Total.....	1,324	87	85	101	96	99	88	109	128	113	96	100	138	3
Saginaw	Males.....	610	48	45	55	47	54	44	53	60	52	33	53	61	.....
	Females.....	609	39	40	46	49	44	44	49	68	60	53	46	66	.....
	Unknown.....	5	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	3
	Total.....	485	34	35	47	43	49	39	41	50	33	25	31	27	.....
Sanilac	Males.....	313	13	23	23	15	23	17	13	26	19	13	14	11	.....
	Females.....	328	11	19	25	27	30	23	23	24	18	18	17	16	.....
	Total.....	13	.....	1	.....	2	.....	1	4	1	3	.....	.....	1	.....
	Males.....	7	.....	1	.....	1	.....	1	1	.....	3	.....	.....	1	.....
Schoolcraft	Females.....	6	.....	.....	.....	1	.....	.....	3	1	1	.....	.....	.....	.....
	Total.....	440	88	82	39	39	36	26	45	45	43	35	38	31	.....
	Males.....	226	15	19	17	23	20	13	31	25	21	19	19	15	.....
	Females.....	314	23	13	15	16	16	14	24	20	22	16	19	16	.....

* Except of townships not represented by returns of births in 1872. See Table XXI.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	Sex.	Year 1872.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
St. Clair.....	Total.....	923	65	63	73	83	100	79	90	84	91	83	73	101	.....
	Males.....	505	29	31	34	41	54	46	43	43	45	47	38	49	.....
	Females.....	416	36	31	39	42	46	33	47	41	46	35	34	51	.....
	Unknown.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
St. Joseph.....	Total.....	395	23	23	26	30	25	30	33	43	53	33	33	36	.....
	Males.....	206	17	13	10	11	14	15	21	20	26	19	19	23	.....
	Females.....	189	16	10	16	9	11	15	17	23	26	19	13	14	.....
	Total.....	391	29	18	36	34	33	28	33	53	79	33	33	33	1
Tuscola.....	Males.....	195	20	8	16	19	15	12	17	23	15	15	16	13	1
	Females.....	196	9	10	20	15	18	16	16	25	14	17	17	19	.....
	Total.....	391	29	18	36	34	33	28	33	53	79	33	33	33	.....
	Unknown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Van Buren.....	Total.....	543	30	44	44	42	40	46	47	73	88	57	35	50	3
	Males.....	296	19	29	23	19	22	25	26	43	17	27	21	25	2
	Females.....	247	11	15	21	23	18	21	21	30	21	30	14	25	1
	Total.....	543	30	44	44	42	40	46	47	73	88	57	35	50	.....
Washtenaw.....	Males.....	273	43	36	56	53	40	45	43	83	70	63	53	76	4
	Females.....	289	28	12	23	29	21	23	29	83	29	24	25	45	1
	Total.....	562	71	48	79	82	61	68	72	166	99	87	78	121	5
	Unknown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Wayne.....	Total	4,045	271	281	307	326	335	359	356	347	381	303	373	404	9
	Males....	2,068	131	144	177	186	169	168	183	176	171	187	185	207	9
	Females -	1,977	139	137	130	137	165	191	153	167	209	171	188	195	.....
	Unknown	80	1	.....	1	8	1	3	1	4	4	5	5	9	.....
Wexford*.....	Total	21	.....	9	1	1	1	2	1	3	1	1	6	9	.....
	Males....	10	.....	.....	.....	.....	1	1	1	3	1	1	9	.....	.....
	Females -	11	.....	9	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....

* Except of townships not represented by returns of births in 1873. See Table XXI.

TABLE V.—*Exhibiting, by Color and by Sex, the Population of Michigan June 1, 1870, the Number of Children born in the State during the Year 1872, the Per Cent. of Children born in 1872 to Population in 1870, the Number of Women aged 18 to 45, the Per Cent. of Births to Women at such child-bearing ages, the Per Cent. of Children of each Sex to the total Number born of both Sexes, and the Number of Inhabitants to each Child born of the same Color. (Still-births included.)*

COLOR OR RACE.	SEX.	Population June 1, 1870, represented by births 1872.	Children born in 1872.	Per Cent. of Children to inhabitants, by sex.	Women, June 1, 1870, aged 18 and under 45 years. ^a	Per cent. of children to women aged 18 to 45.	Per cent. of each sex to children of both sexes.	No. of inhabitants to one child born of the same color.
All Colors.....	Total	1,169,858	27,998	2.398	.....	12.140	.....	41.77
	Males.....	609,994	14,457	2.370	.....	.....	51.80	.....
	Females .	559,859	13,458	2.405	230,590	.....	48.20	.....
	Unknown .....	.....	68	.....	.....	.....	.....	.....
White	Total	1,153,177	27,535	2.396	.....	12.112	.....	41.98
	Males.....	601,578	14,225	2.364	.....	.....	51.79	.....
	Females .	551,509	13,241	2.400	227,831	.....	48.21	.....
	Unknown .....	.....	69	.....	.....	.....	.....	.....
Black	Total	5,515	124	2.248	.....	.....	.....	44.43
	Males.....	3,043	67	2.201	.....	.....	54.47	.....
	Females .	2,472	56	2.265	.....	.....	45.53	.....
	Unknown .....	.....	1	.....	.....	.....	.....	.....
Mulatto	Total	6,197	59	.095	.....	.....	.....	105.03
	Males.....	3,128	32	1.023	.....	.....	54.24	.....
	Females .	3,069	27	.097	.....	.....	45.76	.....
	Unknown .....	.....	.....	.....	.....	.....	.....	.....
Indian	Total	4,461	170	3.808	.....	16.221	.....	26.96
	Males.....	2,245	82	3.652	.....	.....	48.52	.....
	Females .	2,219	87	3.920	938	.....	51.48	.....
	Unknown .....	.....	1	.....	.....	.....	.....	.....

^a Number ascertained from U. S. Census of 1870, Vital Statistics Vol., pp. 569 to 600.

TABLE V.—CONTINUED.

COLOR OR RACE.	Sex.	Population June 1, 1870, repre- sented by births 1872.	Children born in 1872.	Per Cent. of Chil- dren to Inhabit- ants, by sex.	Women, June 1, 1870, aged 18 and under 45 years. ^a	Per Cent. of Chil- dren to women aged 18 to 45.	Per Cent. of each sex to children of both sexes.	No. of inhabitants to one child born of the same color.
Unknown colors	Total	-----	105	-----	-----	-----	-----	-----
	Males	-----	51	-----	-----	-----	54.84	-----
	Females	-----	42	-----	-----	-----	45.16	-----
	Unknown	-----	12	-----	-----	-----	-----	-----
Black and Mu- latto. ^b	Total	11,712	188	1.582	-----	7.869	-----	64.00
	Males	6,171	99	1.604	-----	-----	54.40	-----
	Females	5,541	83	1.498	2,826	-----	45.60	-----
	Unknown	-----	1	-----	-----	-----	-----	-----

^a Number ascertained from U. S. Census of 1870, Vital Statistics Volume, pp. 566 to 569.

^b Includes all of African descent.

Table V. is similar, and its evidence is also similar, to one in last Report. Among other things, it shows that the birth-rate is apparently smaller among persons of African descent, and larger among Indians, than among the white inhabitants of this State. It also shows what has been noticed in the two preceding Reports, that in the case where the birth-rate is largest there is the largest proportion of female children, and where the birth-rate is smallest there is the smallest proportion of female children.

TABLE VI.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Population June 1, 1870, the Per cent. of Births in 1872 to Population in 1870, the Number of Males to 100 Females born during the Year 1872, and by Sex and Color the Number of Children born during the Year ending December 31, 1872. (Stillbirths included.)*

STATE AND COUNTIES.	Number of males to 100 females. †	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1, 1870, represented by births in 1872.*	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
STATE	107	Total .....	.....	1,169,288	2.39	27,993	27,585	124	59	170
		Males	51.80	609,946	2.37	14,457	14,225	67	32	82
		Females	48.20	559,337	2.41	13,458	13,241	56	27	87
		Unknown .....	.....	.....	.....	88	69	c 1	..	1
Alcona ‡ §	100	Total	100.00	696	4.60	32	32	.....	.....	.....
		Males	50.00	393	4.07	16	16	.....	.....	.....
		Females	50.00	303	5.28	16	16	.....	.....	.....
Allegan §	100	Total .....	.....	31,105	2.14	666	662	1	8	.....
		Males	50.23	16,485	2.03	333	330	1	8	.....
		Females	49.77	14,667	2.25	330	329	.....	1	.....
		Unknown .....	.....	.....	.....	3	3	.....	.....	.....
Alpena §	92	Total	100.00	2,612	2.07	54	54	.....	.....	.....
		Males	48.15	1,628	1.59	26	26	.....	.....	.....
		Females	51.85	984	2.85	28	28	.....	.....	.....
Antrim	140	Total	100.00	1,985	3.02	60	58	.....	.....	2
		Males	58.33	1,118	3.13	35	33	.....	.....	2
		Females	41.67	867	2.88	25	25	.....	.....	.....
Barry	112	Total	100.00	22,200	2.09	463	461	.....	2	.....
		Males	52.92	11,646	2.10	245	243	.....	2	.....
		Females	47.08	10,554	2.07	218	218	.....	.....	.....

* Except of counties and townships from which no returns of births were received, for which see Table XXI. † The fraction is omitted in each case in this column. The plus sign may be understood to follow each statement. ‡ No returns from unorganized county of Oscoda. § Except of townships not represented by returns of births in 1872. See Table XXI. a 4 "African," 17 "Colored," 8 "Negro," b 3 "African," 11 "Colored," c "African," 4 8 "Octoroon," e 3 White and Indian, 2 "Creole," 6 "Copper-Colored," 8 "Half-breeds," 4 "Red," f 1 White and Indian, 1 "Creole," 1 Half White, Half Indian, 8 "Half-breeds," 4 "Red," g "Octoroon," h 1 "Octoroon."

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of males to 100 females. †	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1, 1870, represented by births in 1872.*	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Bay	96	Total .....	.....	15,900	5.27	888	888	3	—	2
		Males	49.16	8,914	4.59	409	407	1	—	1
		Females	50.84	6,986	6.05	428	421	2	—	—
		Unknown .....	.....	.....	.....	6	5	—	—	1
Benzie	114	Total	100.00	2,184	8.43	75	72	2	1	—
		Males	58.33	1,168	8.42	40	38	1	1	—
		Females	46.67	1,016	8.44	35	34	1	—	—
		Unknown .....	.....	.....	.....	—	—	—	—	—
Berrien	104	Total .....	.....	85,104	1.91	670	668	6	1	—
		Males	51.12	18,068	1.89	342	338	3	1	—
		Females	48.89	17,041	1.92	327	324	3	—	—
		Unknown .....	.....	.....	.....	1	1	—	—	—
Branch	120	Total .....	.....	26,927	1.95	511	510	1	—	—
		Males	54.71	18,248	2.11	279	278	a 1	—	—
		Females	45.29	12,979	1.73	231	231	—	—	—
		Unknown .....	.....	.....	.....	1	1	—	—	—
Calhoun	115	Total	100.00	36,571	1.75	641	628	12	4	2
		Males	58.51	18,550	1.85	343	337	b 6	—	—
		Females	46.49	18,021	1.65	298	296	6	4	2
		Unknown .....	.....	.....	.....	—	—	—	—	—
Cass §	107	Total .....	.....	20,257	1.67	339	323	8	7	—
		Males	51.79	10,519	1.65	174	168	c 5	6	—
		Females	48.21	9,768	1.66	162	158	b 3	1	—
		Unknown .....	.....	.....	.....	3	2	—	—	—
Charlevoix § ..	114	Total	100.00	1,542	8.89	60	54	1	—	5
		Males	58.33	850	8.76	32	30	—	—	d 2
		Females	46.67	692	4.05	28	24	1	—	3
		Unknown .....	.....	.....	.....	—	—	—	—	—

* Except of counties and townships from which no returns of births were received, for which see Table XXI. † The fraction is omitted in each case in this column. The plus sign may be understood to follow each statement. § Except of townships not represented by returns of births in 1872. See Table XXI. a "Colored." b 2 "Colored." c 2 "Colored" and 2 "Negro." d 1 White and Indian.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of males to 100 females. †	Sex.	Per cent. of births of each sex to total of both sexes.	Population June 1, 1870, represented by Births in 1872. *	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all Colors.	White.	Black.	Mulatto.	Indian.
Cheboygan...	97	Total	-----	2,197	3.87	74	70	1	..	3
		Males	49.82	1,235	2.91	86	88	a 1	..	b 2
		Females	50.68	962	3.65	37	36	..	..	b 1
		Unknown	-----	-----	-----	1	1	..	..	-----
Chippewa...	128	Total	100.00	1,690	4.50	76	33	..	..	43
		Males	55.26	980	4.52	42	16	..	..	c 26
		Females	44.74	760	4.47	84	17	..	..	17
Clare ‡.....	90	Total	100.00	279	6.81	19	19	..	..	-----
		Males	47.87	235	8.68	9	9	..	..	-----
		Females	52.68	44	22.78	10	10	..	..	-----
Clinton.....	121	Total	100.00	22,351	2.25	515	515	..	..	-----
		Males	54.95	11,813	2.40	283	283	..	..	-----
		Females	45.05	11,038	2.10	232	232	..	..	-----
Delta §.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Eaton.....	112	Total	-----	25,163	2.07	522	522	..	..	-----
		Males	58.00	12,949	2.12	274	274	..	..	-----
		Females	47.00	12,214	1.99	248	243	..	..	-----
		Unknown	-----	-----	-----	5	5	..	..	-----
Emmet.....	70	Total	100.00	1,211	4.21	51	18	..	..	33
		Males	41.18	629	3.84	21	8	..	..	18
		Females	58.82	582	5.15	30	5	..	..	d 25
Genesee.....	107	Total	-----	33,895	1.77	599	595	3	..	1
		Males	51.76	17,449	1.77	309	308	e 1	..	-----
		Females	48.24	16,446	1.75	283	287	e 1	..	-----
		Unknown	-----	-----	-----	2	..	e 1	..	1
Gr. Traverse.	97	Total	100.00	4,448	1.57	83	82	..	..	1
		Males	49.40	2,389	1.72	41	40	..	..	f 1
		Females	50.60	2,054	2.04	42	42	..	..	-----

* Except of counties and townships from which no returns of births were received, for which see Table XXI. ‡ No returns. † The fraction is omitted in each case in this column. The plus sign may be understood to follow each statement. § Except of townships not represented by returns of births in 1872. See Table XXI. a "Colored." b "Creole." c "Copper colored." d 1 Half white, half Indian. e "African." f White and Indian.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of males to 100 females. †	Sex.	Per cent. of births of each sex to total of both sexes.	Population June 1, 1870, represented by births in 1872. *	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all Colors.	White.	Black.	Mulatto.	Indian.
Gratiot	104	Total	100.00	11,808	2.97	351	850	.....	1	.....
		Males	51.00	6,189	2.89	179	178	.....	1	.....
		Females	49.00	5,619	3.06	172	172	.....	.....	.....
Hillsdale	101	Total	100.00	31,688	1.71	543	543	.....	.....	.....
		Males	50.28	16,104	1.70	273	273	.....	.....	.....
		Females	49.72	15,584	1.73	270	270	.....	.....	.....
Houghton ‡ ..	97	Total .....	.....	11,718	8.95	468	451	.....	1	11
		Males	49.24	6,610	8.42	227	224	.....	a 3	.....
		Females	50.76	5,078	4.61	234	225	.....	1 b 8	.....
		Unknown .....	.....	.....	.....	2	2	.....	.....	.....
Huron	122	Total	100.00	9,048	8.57	323	323	.....	.....	.....
		Males	55.11	5,036	8.53	178	178	.....	.....	.....
		Females	44.89	4,012	8.61	145	145	.....	.....	.....
Ingham	117	Total .....	.....	25,268	2.17	549	546	8	.....	.....
		Males	53.93	13,096	2.25	295	298	c 2	.....	.....
		Females	46.07	12,172	2.07	252	251	c 1	.....	.....
		Unknown .....	.....	.....	.....	2	2	.....	.....	.....
Ionia	107	Total .....	.....	27,673	2.25	623	620	.....	.....	2
		Males	51.77	14,452	2.23	321	321	.....	.....	.....
		Females	48.23	13,228	2.26	299	299	.....	.....	.....
		Unknown .....	.....	.....	.....	2	.....	.....	.....	2
Iosco ‡ §	172	Total	100.00	2,609	2.52	68	67	.....	1	.....
		Males	68.24	1,576	2.73	43	42	.....	1	.....
		Females	36.76	1,123	2.28	25	25	.....	.....	.....
Isabella	108	Total .....	.....	4,118	3.11	128	108	.....	4	16
		Males	51.97	2,211	2.99	66	55	.....	2 d 9	.....
		Females	48.03	1,902	3.21	61	52	.....	2	7
		Unknown .....	.....	.....	.....	1	1	.....	.....	.....

* Except of counties and townships from which no returns of births were received, for which see Table XXI. † The fraction is omitted in each case in this column. The plus sign may be understood to follow each statement. ‡ Except of townships not represented by returns of births in 1872. § Includes population of unorganized county of Ogemaw. a "Half-breeds." b 7 "Half-breeds." c "Colored." d 1 White and Indian.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of males to 100 females. †	Sex.	Percent of births of each sex to total of both sexes.	Population June 1, 1870, represented by births in 1872. *	Percent. of births of each sex to population of same sex.	COLOR.				
						Total of all Colors.	White.	Black.	Mulatto.	Indian.
Jackson	100	Total	100.00	36,040	1.91	657	688	2	2	---
		Males	50.22	19,056	1.81	345	343	a 1	1	---
		Females ...	49.78	16,984	2.01	342	340	a 1	1	---
Kalamazoo ..	100	Total	---	32,065	1.95	624	608	18	---	3
		Males	50.08	16,522	1.88	311	304	b 6	---	1
		Females ...	49.92	15,543	1.99	310	302	b 7	---	1
		Unknown ..	---	---	---	3	2	---	---	1
Kalkaska	145	Total	100.00	424	6.37	27	27	---	---	---
		Males	59.26	244	6.56	16	16	---	---	---
		Females ...	40.74	180	6.11	11	11	---	---	---
Kent	104	Total	---	50,410	2.56	1,290	1,288	1	2	4
		Males	51.09	26,166	2.51	657	653	---	1	3
		Females ...	48.91	24,244	2.59	629	627	1	1	---
		Unknown ..	---	---	---	4	3	---	---	1
Keweenaw	95	Total	100.00	3,276	2.75	90	90	---	---	---
		Males	48.89	1,821	2.42	44	44	---	---	---
		Females ...	51.11	1,455	3.16	46	46	---	---	---
Lake	118	Total	100.00	543	4.38	24	24	---	---	---
		Males	54.17	305	4.26	18	18	---	---	---
		Females ...	45.83	243	4.53	11	11	---	---	---
Lapeer	112	Total	---	21,842	1.94	414	414	---	---	---
		Males	53.04	11,051	1.97	218	218	---	---	---
		Females ...	46.96	10,291	1.88	198	198	---	---	---
		Unknown ..	---	---	---	3	3	---	---	---
Leelanaw	109	Total	100.00	4,577	3.84	153	128	---	---	25
		Males	52.29	2,401	3.83	80	66	---	---	14
		Females ...	47.71	2,176	3.85	73	62	---	---	11

* Except of counties and townships from which no returns of births were received, for which see Table XXI. † The fraction is omitted in each case in this column. The plus sign may be understood to follow each statement. a "African." b "Colored."

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of males to 100 females. †	Sex.	Per cent of births of each sex to total of both sexes.	Population June 1, 1870, represented by births in 1872. *	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all Colors.	White.	Black.	Mulatto.	Indian.
Lenawee.....	114	Total .....	.....	45,601	1.76	801	792	4	2	3
		Males	58.82	22,916	1.86	426	421	8	1	1
		Females ...	46.68	22,685	1.64	373	370	1	1	1
		Unknown ..	.....	.....	.....	2	1	.....	.....	1
Livingston...	112	Total	100.00	19,385	1.97	380	380	.....	.....	.....
		Males	52.89	10,072	2.00	201	201	.....	.....	.....
		Females ...	47.11	9,263	1.98	179	179	.....	.....	.....
Mackinac ‡ ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macomb.....	111	Total	100.00	27,619	2.00	553	552	1	.....	.....
		Males	58.58	14,096	2.10	296	296	.....	.....	.....
		Females ...	46.47	13,523	1.90	257	256	1	.....	.....
Manistee § ...	122	Total	100.00	5,417	4.48	240	240	.....	.....	.....
		Males	55.90	3,075	4.28	132	132	.....	.....	.....
		Females ...	45.00	2,342	4.61	108	108	.....	.....	.....
Manitou.....	14	Total	100.00	891	1.68	15	14	.....	.....	1
		Males	58.88	498	1.64	8	8	.....	.....	.....
		Females ...	46.67	408	1.74	7	6	.....	a 1	.....
Marquette...	121	Total .....	.....	14,378	3.96	568	566	.....	.....	1
		Males	54.85	8,485	3.67	311	311	.....	.....	.....
		Females ...	45.15	5,793	4.42	256	255	.....	b 1	.....
		Unknown ..	.....	.....	.....	1	.....	.....	.....	1
Mason.....	94	Total	100.00	3,266	4.58	148	146	.....	.....	2
		Males	48.65	1,814	3.97	72	72	.....	.....	.....
		Females ...	51.35	1,452	5.23	76	74	.....	.....	2
Mecosta	116	Total	100.00	5,645	3.08	171	169	2	.....	.....
		Males	58.80	3,061	3.01	92	91	c 1	.....	.....
		Females ...	46.20	2,584	3.06	79	78	c 1	.....	.....

* Except of counties and townships from which no returns of births were received. for which see Table XXI. † The fraction is omitted in each case in this column. The plus sign may be understood to follow each statement. ‡ No returns. § Except of townships not represented by returns of births in 1872. See Table XXI. a "Red." b White and Indian. "African."

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of males to 100 females. †	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1, 1870, represented by births in 1872.*	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Menominee ..	128	Total	100.00	1,895	1.58	29	29	—	—	—
		Males	55.17	1,266	1.26	16	16	—	—	—
		Females	44.83	629	2.07	13	13	—	—	—
Midland ‡	184	Total	100.00	2,961	3.24	96	95	1	—	—
		Males	57.29	1,682	3.37	55	55	—	—	—
		Females	42.71	1,329	3.09	41	40	1	—	—
Missaukee ...	66	Total	100.00	180	7.69	10	10	—	—	—
		Males	40.00	76	5.26	4	4	—	—	—
		Females	60.00	54	11.11	6	6	—	—	—
Monroe ‡	99	Total	100.00	26,026	2.45	638	635	1	—	1
		Males	49.84	13,105	2.41	318	317	1	—	—
		Females	50.16	12,881	2.49	320	318	—	—	1
Montcalm	88	Total	—	12,459	2.61	325	324	—	—	1
		Males	46.91	6,656	2.28	152	152	—	—	—
		Females	53.09	5,803	2.96	172	171	—	—	1
Muskegon ‡ ..	101	Unknown	—	—	—	1	1	—	—	—
		Total	—	14,282	1.90	271	215	1	—	55
		Males	50.37	8,047	1.69	186	105	1	—	30
Newaygo ‡	104	Females	49.63	6,185	2.17	184	109	—	—	25
		Unknown	—	—	—	1	1	—	—	—
		Total	100.00	6,758	2.06	139	137	1	1	—
Oakland	111	Males	51.08	3,601	1.97	71	70	—	—	1
		Females	48.92	3,152	2.16	68	67	1	—	—
		Total	100.00	40,906	1.83	545	516	2	—	25
Oceana	111	Males	52.66	21,135	1.86	287	278	—	—	14
		Females	47.34	19,771	1.80	258	245	2	—	11
		Total	100.00	7,222	3.02	216	211	—	—	7
Oceana	111	Males	52.75	3,948	2.91	115	111	—	—	4
		Females	47.25	3,274	3.15	108	100	—	—	8

*Except of counties and townships from which no returns of births were received, for which see Table XXI. †The fraction is omitted in each case in this column. The plus sign may be understood to follow each statement. ‡ Except of townships not represented by returns of births in 1872. See Table XXI. a "Negro." b "Red."

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of males to 100 females. †	Sex.	Per cent. of births of each sex to total of both sexes.	Population June 1, 1870, represented by births in 1872. *	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all Colors.	White.	Black.	Mulatto.	Indian.
Ontonagon...	152	Total	100.00	2,846	2.04	58	57	.....	.....	1
		Males	60.84	1,430	2.45	35	35	.....	.....	.....
		Females ...	39.66	1,416	1.62	23	22	.....	.....	1
Osceola ‡	82	Total	100.00	2,104	5.04	106	106	.....	.....	.....
		Males	45.28	1,167	4.11	45	48	.....	.....	.....
		Females ...	54.72	937	6.19	58	58	.....	.....	.....
Ottawa	119	Total .....	.....	26,650	2.93	780	776	8	1	.....
		Males	54.44	14,050	3.01	428	419	8	1	.....
		Females ...	45.56	12,600	2.81	354	354	.....	.....	.....
		Unknown .....	.....	.....	.....	8	8	.....	.....	.....
Presque Isle ‡	85	Total	100.00	855	7.82	26	26	.....	.....	.....
		Males	46.15	220	5.24	12	13	.....	.....	.....
		Females ...	53.85	126	11.11	14	14	.....	.....	.....
Saginaw	100	Total .....	.....	30,098	3.18	1,224	1,218	1	1	4
		Males	50.04	21,064	2.90	610	608	.....	1	1
		Females ...	49.96	18,084	3.83	609	608	1	.....	.....
		Unknown .....	.....	.....	.....	5	2	.....	.....	3
Sanilac	95	Total	100.00	14,565	2.99	435	435	.....	.....	.....
		Males	48.74	7,722	2.75	212	212	.....	.....	.....
		Females ...	51.26	6,848	3.26	223	223	.....	.....	.....
Schoolcraft ..	116	Total	100.00	799	1.63	13	9	.....	.....	4
		Males	53.85	519	1.35	7	5	.....	.....	2
		Females ...	46.15	280	2.14	6	4	.....	.....	2
Shiawassee ..	105	Total	100.00	20,823	2.11	440	440	.....	.....	.....
		Males	51.36	10,815	2.09	226	226	.....	.....	.....
		Females ...	48.64	10,007	2.14	214	214	.....	.....	.....

* Except of counties and townships from which no returns of births were received, for which see Table XXI. † The fraction is omitted in each case in this column. The plus sign may be understood to follow each statement. ‡ Except of townships not represented by returns of births in 1872. See Table XXI. a "Half-breed," b "Colored."

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of males to 100 females. †	Sex.	Per cent. of births of each sex to total of both sexes.	Population June 1, 1870, represented by births in 1872. *	Per cent. of births of each sex to popula- tion of same sex.	COLOR.					
						Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
St. Clair.....	106	Total	-----	86,759	2.67	982	981	-----	-----	-----	1
		Males.....	51.48	19,011	2.66	505	505	-----	-----	-----	-----
		Females...	48.52	17,748	2.68	476	476	-----	-----	-----	-----
		Unknown..	-----	-----	-----	1	-----	-----	-----	-----	1
St. Joseph...	108	Total	100.00	26,272	1.50	395	392	2	-----	-----	1
		Males.....	52.15	18,480	1.53	206	205	1	-----	-----	-----
		Females...	47.85	12,792	1.48	189	187	1	-----	-----	1
Tuscola.....	99	Total	100.00	18,715	2.85	391	391	-----	-----	-----	-----
		Males.....	49.87	7,268	2.68	195	195	-----	-----	-----	-----
		Females...	50.13	6,452	3.04	196	196	-----	-----	-----	-----
Van Buren...	117	Total	100.00	28,885	1.90	548	537	5	4	2	-----
		Males.....	54.01	14,907	1.99	296	290	a 2	3	1	-----
		Females...	45.99	18,923	1.81	252	247	3	1	1	-----
Washtenaw...	100	Total	100.00	41,440	1.64	678	672	2	4	-----	-----
		Males.....	50.00	21,478	1.58	339	336	b 2	1	-----	-----
		Females...	50.00	19,962	1.70	339	336	-----	3	-----	-----
Wayne.....	108	Total	-----	119,068	3.40	4,045	3,932	48	16	2	2
		Males.....	51.96	59,964	3.45	2,086	2,053	25	6	1	1
		Females...	48.04	59,104	3.26	1,929	1,899	a 18	10	1	1
		Unknown..	-----	-----	-----	30	30	-----	-----	-----	-----
Wexford ‡....	90	Total	100.00	473	4.39	21	21	-----	-----	-----	-----
		Males.....	47.62	250	4.00	10	10	-----	-----	-----	-----
		Females...	52.38	228	4.82	11	11	-----	-----	-----	-----

* Except of counties and townships from which no returns of births were received, for which see Table XXI. † The fraction is omitted in each case in this column. The plus sign may be understood to follow each statement. ‡ Except of townships not represented by returns of births in 1872. See Table XXI. a 1 "Colored." b 1 "African."

In every Report and in every circular of instructions relating to this subject, issued by the State Department, the attention of supervisors is called to the importance of stating the color of persons who have died, and of children born. It would seem that this item can be stated accurately if supervisors try to do so. It really seems too bad to be obliged to wait year after year for information on the various questions which accurate statistics of this kind would so soon give us. So far as any generalizations can be conveniently made from the statistics of color contained in Table VI., they are contained in the remarks relating to table V., which is derived therefrom.

Table VI. also contains columns exhibiting for each county the proportion of each sex born, and the proportion of children born in 1872 to inhabitants in 1870. If there was no necessary relation between the birth-rate and the proportion of each sex born, other things being equal, the sixty-eight counties might be supposed to be divided equally between four propositions, as follows: 1. More than average proportion of births, more than average proportion of males; 2. more than average proportion of births, less than average proportion of males; 3. less than average proportion of births, less than average proportion of males; 4. less than average proportion of births, more than average proportion of males. The chances would be in favor of each proposition being true for seventeen counties. A careful examination of the table shows that the first proposition is true of seventeen, the second proposition, of twenty, the third proposition, of fourteen, and the fourth proposition of seventeen counties. The rule that a greater than average birth-rate is attended with a less than average proportion of male children, and *vice versa*, holds, therefore, in 37 cases out of 68. An examination of the similar table in the last Report, for 1871, shows that this rule held in 34 out of 67 counties.

TABLE VII.—*Exhibiting, by Sex, by Number, and by Per Cent. of Total, the Parent-Nativity of Children born in Michigan during the Year 1872.*

NATIVITY OF PARENTS OF CHILDREN BORN.	BIRTHS IN 1872.							
	NUMBER.				PER CENT. OF TOTAL.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities.....	27,998	14,457	13,458	88	100.00	100.00	100.00	100.00
Both parents native.....	12,907	6,685	6,245	27	46.11	45.89	46.42	32.58
Both parents foreign.....	9,721	5,018	4,674	29	34.73	34.71	34.74	34.94
Foreign father and native mother	2,509	1,358	1,241	5	9.23	9.36	9.22	6.02
Foreign mother and native father	1,859	717	640	2	4.85	4.96	4.76	2.41
Unknown mother, father native.	869	210	178	1	1.89	1.45	1.32	1.21
Unknown mother, father foreign	410	227	180	3	1.46	1.57	1.34	3.61
Unknown father, mother native.	137	72	65	----	.49	.50	.48	-----
Unknown father, mother foreign	89	33	55	1	.32	.23	.41	1.30
Both unknown.....	382	192	175	15	1.36	1.33	1.30	13.07
One or both native.....	17,891	8,987	8,369	35	63.18	63.16	63.21	43.17
One or both foreign.....	14,178	7,848	6,790	40	50.65	50.83	50.47	43.19

EXHIBIT F.—*Parent-Nativity of Children born in Michigan during the Years 1869, 1870, 1871, and 1872.*

NATIVITY OF PARENTS OF CHILDREN BORN.	BIRTHS, 1869.		BIRTHS, 1870.		BIRTHS, 1871.		BIRTHS, 1872.	
	Number.	Per cent. of total.	Number.	Per cent. of total.	Number.	Per cent. of total.	Number.	Per cent. of total.
All Nativities.....	27,093	100.00	26,668	100.00	25,992	100.00	27,993	100.00
Both parents native.....	18,060	43.20	12,895	46.48	11,374	43.75	12,907	46.11
Both parents foreign.....	8,048	29.68	8,604	32.26	8,784	33.60	9,781	34.73
Fathers foreign, mothers native	1,904	7.02	2,246	8.42	2,109	8.11	2,599	9.23
Mothers foreign, fathers native	1,219	4.49	1,825	4.96	1,217	4.68	1,859	4.85
One or both unknown.....	2,867	10.59	2,093	7.84	2,558	9.84	1,407	5.08
One or both parents native *..	16,188	59.78	15,966	59.88	14,700	53.55	16,965	60.25
One or both parents foreign *.	11,166	41.21	12,175	45.66	12,060	46.89	13,679	48.87

* Excluding cases where nativity of either parent is unknown.

Compare this Exhibit with Exhibits J, K, and L.

Table VII. exhibits at least one gratifying fact, which is, that the number and per cent. of births returned without a statement of the parent-nativity is much less than heretofore. The line "One or both unknown" in Exhibit F, shows incidentally the great improvement in this respect from 1869 to 1872 inclusive. It was remarked in last Report that the evidence in Exhibit F indicates that the proportion of births of children of foreign parents is gradually increasing. Although the per cent. is still larger, by that Exhibit in this Report, the per cent. of native parents is also larger than in the previous one, evidently increased at the expense of the "unknown," by a more accurate statement of the facts.

**EXHIBIT H.—Parent-Nativity of Children born in Michigan during the Years 1870, 1871, and 1872,—
Relation of Native and Foreign-born Parents to Native and Foreign-born Inhabitants June 1, 1870.**

NATIVITY OF PARENTS OF CHILDREN, AND NA- TIVITY OF INHABIT- ANTS.	NATIVE AND FOREIGN BORN POPULATION JUNE 1, 1870.			PARENTS OF CHILDREN BORN IN 1870, 1871, AND 1872.						
	Total.	Males.	Females.	Year.	NUMBER. ^a			PER CENT. OF PARENTS TO POPULATION OF SAME SEX AND NATIVITY.		
					Both par- ents.	Fathers.	Mothers.	Both par- ents.	Fathers.	Mothers.
All Nativities ^b	d 1,158,166	608,635	554,511		52,693	26,816	26,816	4.54	4.36	4.75
Native ^c	d 904,740	463,423	441,318	1870	27,973	13,531	14,441	3.09	2.99	3.27
Foreign ^c	d 253,426	140,233	113,193		20,539	10,721	9,811	8.10	7.65	8.67
All Nativities ^b	e 1,147,234	597,767	549,466		51,876	25,688	25,688	4.48	4.30	4.63
Native ^c	e 894,202	457,914	436,288	1871	25,773	12,447	13,331	2.88	2.73	3.06
Foreign ^c	e 253,032	139,854	113,178		20,554	10,719	9,835	8.13	7.66	8.67
All Nativities ^b	f 1,160,268	609,946	550,327		53,232	27,641	27,641	4.73	4.53	4.94
Native ^c	f 908,625	465,336	443,289	1872	29,420	14,097	15,323	3.24	3.03	3.46
Foreign ^c	f 250,663	144,560	116,098		23,072	12,154	10,918	8.85	8.41	9.40

^a As shown by number of children, after subtracting the proper number for twins and triplets.

^b Includes parents of unknown nativities.

^c Excluding cases where nativity of either parent is unknown.

^d Except of counties and townships not represented by births in 1870.

^e Except of counties and townships not represented by births in 1871.

^f Except of counties and townships not represented by births in 1872.

The casual reader is cautioned against coming to wrong conclusions based upon Exhibit H. The statement of the "Native inhabitants" includes very nearly all the children, and the "Per cent. of Parents to Population" is consequently small for the "Natives." In order to learn the relative fecundity of the native and foreign born inhabitants, we need to examine other evidence. Exhibits I to M, inclusive, bear upon the subject.

EXHIBIT I.—*Nativity of Inhabitants of Michigan June 1, 1870, aged 15 to 45 years, stating, by Sex, the Number and Per cent. of Native and Foreign-born Inhabitants at such Ages.*

NATIVITY OF INHABITANTS	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 15 TO 45 YEARS. *					
	NUMBER.			PER CENT. OF TOTAL.		
	Both sexes	Males.	Females.	Both sexes	Males.	Females.
All Nativities.....	555,852	239,065	366,267	100.00	100.00	100.00
Native-born.....	387,306	195,765	191,541	69.74	67.71	71.33
Foreign-born.....	168,046	98,320	74,726	30.25	32.28	28.66

* From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

EXHIBIT J.—By Sex, the Relation of Native and Foreign-1869, 1870, 1871, and 1872, to the Native and Foreign-born 15 to 45 Years.

NATIVITY OF PARENTS OF CHILDREN BORN.		Per Cent. of Parents of Children Born in 1869, to Inhabitants June 1, 1870, of same Nativity and Sex, aged 15 to 45.			Per Cent. of Parents of Children Born in 1870 to Inhabitants June 1, 1870, of same Nativity and Sex, aged 15 to 45.		
		Both parents.	Fathers.	Mothers.	Both Parents.	Fathers.	Mothers.
All Nativities.....		9.65	9.27	10.06	9.48	9.10	10.01
Both parents native.....		b 6.65	c 6.58	d 6.78	b 6.81	c 6.24	d 6.83
Both parents foreign.....		e 9.47	f 8.53	g 10.65	e 10.12	f 9.11	g 11.87
Fathers foreign, mothers native.....		f 4.08	f 2.01	d .98	f 4.76	f 2.37	d 1.15
Mothers foreign, fathers native.....		e 3.28	g 1.62	c .62	e 3.50	e 1.75	c .96
One or both parents unknown.....							
One or both parents native ^b		b 8.25	c 8.16	d 8.33	b 8.13	c 8.04	d 8.22
One or both parents foreign ^b		e 13.15	f 11.84	g 14.78	e 14.32	f 12.80	g 16.09
Mothers.....	Native.....						d 7.54
	Foreign.....						g 13.13
	Unknown.....						
Fathers.....	Native.....					c 6.91	
	Foreign.....					f 11.49	
	Unknown.....						

^a As shown by children born, after subtracting the proper number for twins and triplets.

^b Per cent. to native-born inhabitants aged 15 to 45.

^c Per cent. to native-born males aged 15 to 45.

^d Per cent. to native-born females aged 15 to 45.

*born Parents of Children born in Michigan during the Years
Inhabitants of Michigan June 1, 1870, at Child-bearing ages,—*

NUMBER OF PARENTS OF CHILDREN BORN IN 1871. ^a			Per Cent of Parents of Children Born in 1871 to Inhabit- ants June 1, 1870, of same Nativity and Sex, aged 15 to 45.			NUMBER OF PAR- ENTS OF CHIL- DREN BORN IN 1872. ^a			Per Cent. of Parents of Children Born in 1872 to Inhabit- ants June 1, 1870, of same Nativity and Sex, aged 15 to 45.		
Both Par- ents.	Fathers.	Mothers.	Both Par- ents.	Fathers.	Mothers.	Both Par- ents.	Fathers.	Mothers.	Both Par- ents.	Fathers.	Mothers.
51,376	25,668	25,668	9.25	8.86	9.64	55,232	27,641	27,641	9.95	9.56	10.88
22,476	11,288	11,228	b 5.90	c 5.74	d 5.86	25,506	12,758	12,758	b 6.59	c 6.51	d 6.66
17,252	8,626	8,626	e 10.36	f 9.24	g 11.54	19,168	9,584	9,584	e 11.41	f 10.27	g 12.88
4,184	2,098	2,098	f 4.48	f 2.24	d 1.09	5,140	2,570	2,570	f 5.51	f 2.75	d 1.84
2,418	1,209	1,209	g 8.23	g 1.61	c .61	2,688	1,344	1,344	g 8.60	g 1.80	c .60
5,044	2,522	2,522	-----	-----	-----	2,780	1,390	1,390	-----	-----	-----
29,080	14,540	14,540	b 7.50	c 7.42	d 7.59	33,834	16,667	16,667	b 8.61	c 8.51	d 8.75
22,356	11,928	11,928	e 14.19	f 12.73	g 15.96	26,996	13,498	13,498	e 16.06	f 14.46	g 18.06
-----	-----	13,496	-----	-----	d 7.03	-----	-----	15,459	-----	-----	d 8.07
-----	-----	10,141	-----	-----	g 18.57	-----	-----	11,015	-----	-----	g 14.74
-----	-----	2,051	-----	-----	-----	-----	-----	1,167	-----	-----	-----
-----	18,328	-----	-----	c 6.81	-----	-----	14,482	-----	-----	c 7.40	-----
-----	11,488	-----	-----	f 12.26	-----	-----	12,560	-----	-----	f 13.46	-----
-----	927	-----	-----	-----	-----	-----	599	-----	-----	-----	-----

^a Per cent. to foreign-born inhabitants aged 15 to 45.

^b Per cent. to foreign-born males aged 15 to 45.

^c Per cent. to foreign-born females aged 15 to 45.

^d Excluding cases where nativity of either parent is unknown.

EXHIBIT K.—Nativity of Inhabitants of Michigan June 1, 1870, aged 20 to 45 Years,—Stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such ages.

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 20 TO 45 YEARS. *					
	NUMBER.			PER CENT. OF TOTAL.		
	Both sexes.	Males.	Females.	Both sexes.	Males.	Females.
All Nativities.....	436,048	228,874	207,169	100.00	100.00	100.00
Native-born	239,004	146,978	142,726	66.28	63.91	68.89
Foreign-born.....	147,089	82,596	64,443	33.72	36.09	31.11

* From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

Compare this exhibit with Exhibit F.

EXHIBIT L.—Nativity of Inhabitants of Michigan June 1, 1870, aged 25 to 45 Years,—Stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such ages.

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 25 TO 45 YEARS. *					
	NUMBER.			PER CENT. OF TOTAL.		
	Both sexes.	Males.	Females.	Both sexes.	Males.	Females.
All Nativities.....	320,546	168,756	151,790	100.00	100.00	100.00
Native-born	205,874	108,900	101,474	64.07	61.56	66.85
Foreign-born	115,173	64,856	50,816	35.93	38.43	33.15

* From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

BIRTH-RATE OF NATIVE, AND OF FOREIGN-BORN INHABITANTS.

Much has been written in this country on the decrease of the birth-rate among the native-born inhabitants, and the larger birth-rate of the foreign-born inhabitants. Inasmuch as the views of the compiler of this volume may be exceptional, it is proper to state that the greater number of writers seem to consider this as evidence of degeneration of the race in this country, and some even go so far as to state their belief that "Our native American stock is not self-sustaining." These statements are quite frequently seen copied into foreign journals. In the opinion of the compiler the low birth-rate of the native-born inhabitants is something to be proud of. He regards it as good evidence of progress in civilization. As pointed out in the Report for 1869, it is entirely in harmony with the general law, which was perhaps first published by Herbert Spencer, that individuation is opposed to excessive reproduction. Our native-born inhabitants are building up good reliable individuals, as evidenced by their low death-rate. One of the methods of breaking down individuals is to drain them by excessive reproduction and then overwork them to sustain the offspring. This works mischief for the present and future, for "like begets like," and the children are consequently feeble. Our native inhabitants are rapidly learning how to avoid these evils, and a stronger, healthier, nobler, and longer-lived generation is the very gratifying result.

It is quite common to find writers instancing a large birth-rate as evidence of physical stamina. The reverse of this proposition is believed to be the truth. This has seemed to the compiler so evidently probable that he has heretofore refrained from grouping the evidences of it in these Reports; but since so many prominent writers have taken the opposite view, it seems advisable to begin a study of the evidence found in these statistics bearing upon the subject. As regards the offspring, males are born in greater numbers than females. In

this State the average is about 109 males to 100 females. During the first month of life the deaths in 1872, including stillbirths, were, as shown by a new exhibit in Deaths, 141 males to 100 females. The stillbirths themselves average in this State about 150 males to 100 females. During the first year of life the deaths in 1872 were, as shown by Table of Deaths, 127.87 males to 100 females. This proportion of the sexes dying under one year of age does not appear to be exceptional.

So far as relates to human offspring, then, it appears that an increased birth-rate is in this instance connected with evidence of low vitality. In the human species, the natural or at least the present tendency toward reproduction, is probably strongest in the males. On the contrary, the females tend toward "individuation" or the most perfect development of the individual.

On page 33, in remarking upon the birth-rates of the different races, it was shown that in this State the birth-rate of Indians is apparently much greater than the birth-rate of the white inhabitants. By the Table of Deaths by Color, it will be seen that their death-rate is considerably greater. It is so much greater that it cannot well be entirely accounted for by a greater mortality among infants. It is, therefore, probable that, in this instance, the greater birth-rate is at least coincident with a great mortality of adults.

From the tables in this Report, it seems probable that the general belief among those who have studied the subject, that the birth-rate is greater among the foreign-born than among the native inhabitants, is true for this State. It cannot conveniently be shown in this Report, but it is believed to be true, that the death-rate is also greater, as regards adults of foreign birth, and also as regards the children of the foreign born. The truth can eventually be learned from these statistics, so far as relates to adults; but the nativity of parents of those who die is not stated in our returns. It should be, for the

question is considered of importance and is quite frequently enquired about by those who wish to discuss questions in social science upon which this bears.

From these statistics alone for a single year, it is not easy to prove or disprove the proposition that the decreased birth-rate of our native-born inhabitants is evidence of increased individual development and vigor; but a beginning has been made, which if continued can be made to yield definite information on this subject, which is one that seems to be of very great importance, bearing as it does upon the continuance of the race in this country. The prevailing opinion seems to be that the white race has, in America, commenced to decline. It will be seen that the compiler does not share in that belief, interpreting, as he does, the lessened birth-rate as evidence of progress in a higher and better development in accordance with a general law of individual development as opposed to rapid multiplication. Although it does not prove anything concerning the human species, it may be remarked, in passing, that a survey of the animal kingdom seems to confirm this view. Those animals which mature slowly and live long do not usually have numerous offspring, nor do they reproduce with great rapidity. On the other hand, the short-lived animals, or those where the destruction of life is great from the beginning, as in many of the fishes, have millions of offspring. That physicians who are called to treat women for barrenness should come to believe that fertility is connected with the most perfect health, is perfectly natural; but it does not necessarily follow that the greatest possible tax upon that fecundity is either a mark of the most perfect development, or beneficial to the parent or offspring. It is a common belief, and one which is frequently acted upon, that excessive flowering and especially fruiting is particularly exhausting to plants. It is a common practice among fruit-raisers to thin out the fruit at an early period; and they do this in the interest of the remaining fruit as well as the parent tree.

The foregoing should not be tortured into even the slightest excuse for the practice of criminal abortion. The writer, however, doubts the alleged increase of this practice, which has been mentioned as one of the causes of decreased birth-rate. It is a much more probable, as well as a more humane and encouraging view, to believe that the decrease of the birth-rate is, in a great degree, due to intelligent self-control through a better and increasing knowledge of the laws of physiology and reproduction. The writer believes that the more thorough dissemination of such knowledge is one of the best measures for lessening criminal abortion,—that it will tend to render it uncalled for and undesirable. He is also happy in the belief that the apparently decreased birth-rate of our native-born inhabitants, taken in connection with the comparatively low death-rate, is evidence of the higher development which is here being reached through increased spread of all kinds of knowledge bearing upon the question of right living.

**AVERAGE ULTIMATE NUMBER OF CHILDREN TO EACH WOMAN,
TO EACH FAMILY, AND TO EACH MOTHER.**

Although the birth-rate of foreign-born inhabitants seems greater than among our native women, the difference is not as great in Michigan as has been asserted for other States and localities.

In the writings of those who believe in the degeneration of the human races in this country, we find such statements as the following, which are quoted from "Population,—Its Law of Increase," by Nathan Allen, M. D., LL. D., of Lowell, Mass., one of the prominent writers of this class. On page 7 of that pamphlet he makes statements as follows: "If we compare the number of children born by the strictly American, with that of the Irish, the Scotch, the English, and the German, the difference is surprising. We find the latter, both in Europe and in this country, have on an average two, if not three times as many as the former, even though both classes may live in the same locality and under the same general influ-

ences. Again, if we make the comparison between the present generation in New England and their ancestors living one hundred years ago, we find the number of children at that period averaged two or three times as many as in the same number of families at the present day." Upon what evidence these statements rest the compiler does not know. He does not even know of any statistics of this country which exhibit with any certainty the number of children to each family or to each mother, at this time or one hundred years ago, for the native or for the foreign-born inhabitants. The question seems to be of sufficient importance to warrant an effort to learn what we can from our own State statistics.

An approximate estimate of the average ultimate number of children to each woman can now be made from the data in Exhibit J. According to Exhibit J, the per cent. of mothers to female inhabitants of Michigan aged 15 to 45 was, for 1869, 10.06; for 1870, 10.01; for 1871, 9.64; for 1872, 10.38. The average per cent. was 10.02. The enumeration of inhabitants was about the middle of the year 1870. If we call the period from 15 to 45 years of age the child-bearing age, it is a period of thirty years; and if in each year 10.02 per cent. of the women at such ages give birth to a child, in thirty years the per cent. will be thirty times 10.02, which equals 300.6 per one hundred women, or three children for each woman. In the exhibit the actual number of parents are stated, as well as the statistics show this,—consequently the number of children to each woman should be slightly increased for twins and triplets. A small number of illegitimate children are included.

Comparing the native and foreign-born, it is found that for the years 1871 and 1872, the average relation of native-born mothers to native-born females aged 15 to 45 was 7.56 per cent., while of foreign-born mothers to foreign-born females at such ages it was 14.15 per cent. By the method employed above, this would indicate that the number of children to each woman should be, for the native-born, 2.27, for the foreign-born, 4.25.

It is probable, however, that the inhabitants are more thoroughly enumerated than the births, and that the number of children stated above is therefore too small. On page 5 of the Report for 1871 it may be seen that the omissions were believed to be such that for that year 44.83 per cent. should be added to the number of births returned to make them equal the number which probably occurred. As stated on a previous page, we have found that the births for 1872 should, probably, be increased by 55.74 per cent. From this standpoint the computation may be again made, distinguishing between native and foreign-born women, as follows: For the years 1871 and 1872 the average relation of native-born mothers thus increased, to the native-born female inhabitants aged 15 to 45, was 11.39 per cent., while of the foreign-born mothers to foreign-born females at such ages it was 21.31 per cent. This would increase the statement of the number of children to each woman at the above-mentioned ages so that it would be about as follows: For each native-born woman aged 15 to 45 years, 3.42 children; for each foreign-born woman aged 15 to 45 years, 6.39 children. For the same years, the average relation of all mothers to women of all nativities aged 15 to 45 years, was 15.07 per cent. So far as this method of estimating will do so, this indicates that, at this rate, the number of children to each woman in the State aged 15 to 45 years would be about 4.52.

It should be remembered that in the foregoing computation all women aged 15 to 45 years are included. By the census of 1874, it appears that 16.73 per cent. of the females in Michigan aged 18 years and over have never been married. Of those aged 15 years and over the proportion is probably a little larger. If we say that of those aged 15 to 45 years there are 17 per cent. single, subtract this per cent. from the female inhabitants at those ages, increase the births for omissions in enumerating, and go over the computation again, we find that for the years 1871-2 the average relation of all mothers of all

nativities, to the married, widowed, and divorced female inhabitants aged 15 to 45, is 18.16 per cent. Multiplied by 30 and divided by 100, this indicates that, at the rate for those years, and excepting the unmarried women, the number of children would be about 5.45 to each woman. By this same method for the same time, the average relation of the native mothers to the native female inhabitants at such ages, once married, is found to be 13.72 per cent., and the number of children is 4.12 to each such native woman. The per cent. of foreign-born mothers to foreign females at such ages, once married, is 25.67, and the number of children is 7.70 to each such foreign-born woman, once married. Throughout this computation so far as relates to the State statistics, stillbirths are included. The number of children to each married woman would be slightly increased if twins were counted, but the illegitimate are not subtracted and will in part make up for not counting twins but as one child.

It may occur to some to suggest that a correction needs to be made to this method, for the reason that not all females eventually married are married during all the years between the ages 15 and 45; but if the years under consideration were average years in this respect, this correction is not called for.

So far as known to the writer, this is the first attempt to gain this information relative to this State, or to any portion of the State; and the only material which seems to be available for the purpose of testing the probable accuracy of the results reached by this method of study, is contained in an article published in 1871 by Dr. H. O. Hitchcock, of Kalamazoo, entitled "Fertility of the Native Americans of the Present Generation." Dr. Hitchcock's paper was based upon statistics of 1,629 families, in Kalamazoo, to which had been born 6,189 children, being an average of 3.8 children to each family. The average number of children to each "American" family was 3.34, and to each foreign-born family it was 4.51 children. It will not do to compare these numbers directly

with those which we have previously obtained. Various methods have been suggested whereby it has been thought that the average ultimate number of children to each family or to each mother might be learned from the average number of children which have been born to each family or mother in a State or community; but so far as known to the writer none of these plans have been accepted as reliable. The compiler suggests a method as follows: The families just mentioned were the "families in Kalamazoo," and undoubtedly embraced those in which the mothers had, and those in which they had not passed the child-bearing age. If we suppose that the families embraced the natural average of families, in this respect, then the number of children stated above should be multiplied by two in order to include the children which would be born to the same families afterwards. This would make the statement of the ultimate number of children read as follows: All nativities, 7.60; Americans, 6.68; Foreign-born, 9.02 children to each family. It will be observed that these numbers are considerably larger than those reached through our State statistics, and particularly large concerning the "Americans." Two sources of discrepancy may be suggested. First, the number of children in the last statement worked out from the State statistics, was to each woman who was married, widowed, and divorced, and it seems quite reasonable to conclude that at least some proportion of those cases where the family was broken up were probably omitted in Dr. Hitchcock's statistics. This would be particularly likely to be true of all cases where there were no children left. Second, in order that the ultimate number of children to each woman shall be found by multiplying by two the number found at any given time, it is essential that the families be an average sample, including those but just married. It seems hardly probable that the statistics collected by Dr. Hitchcock contained all such cases, for many of them would be boarding, some of them temporarily absent, and probably none of them particu-

larly called for in his collection, which was made for the purpose of showing the present fertility or infertility of native Americans compared with former times and with foreign-born inhabitants. In reply to the question, Dr. Hitchcock writes: "I instructed the person who took the census, to include all married persons in the town, even though one of the two supposed to constitute a family were dead or divorced. It probably only approximated to accuracy." The primary object of his statistics not being to ascertain the statements which the writer has now worked out from them, it may be, and probably is true, that the statements thus arrived at are too large, and for the reasons given. It seems probable, however, that the difference is not all accounted for in this manner, for if the number of female inhabitants of Michigan aged 15 to 45 be reduced by 27 per cent. it will probably represent approximately, the women at those ages actually living in wedlock. Computing the per cent. of births in Michigan as increased, to the number of women thus obtained, it is found to be 20.64. By the same methods employed throughout, this would make 6.19 children to each woman in Michigan actually living in wedlock. Now, to bring the number of children to each woman, as shown by using Dr. Hitchcock's statistics, down to this number, would require that the number of families having no children should be increased by about 23 per cent. of all families reported. The whole number of widowed and divorced women in the population is only counted, in the previous computation, as 10 per cent. of all women aged over 15 years.* But if all of these two classes of persons were omitted in Dr. Hitchcock's collection it would still require that 23 per cent. of all the families, and these newly married or not yet having a child born to them, should also have been omitted in order to bring the statement of the number of children down to the statement worked out from the State statistics. According

* The census of Michigan, 1874, shows that of females aged 18 years and over the per cent. of widowed and divorced is 9.41 +.

to the census of Michigan, 1874, the per cent. of males aged 21 years and over that were widowed or divorced, was 4.32+. In the statements worked out from the State statistics, all the births are supposed to be included. It seems probable that this is true of the statistics collected by Dr. Hitchcock. But it is quite possible that, by his method, in some of those cases where no children were left, and the wife was dead or divorced, the remaining husband was not counted as a "family," while if there was a child or children he was so counted. Possibly the 23 per cent. may be in part accounted for in this manner. Bearing upon the question of the possibility of the remainder being among the newly married, it may be desirable to estimate the proportion which these marriages are to all families. By a computation previously referred to, the approximate number of women in Michigan June 1, 1870, aged 15 to 45 years, actually living in wedlock, was estimated to be 194,370. About this time the average number of marriages annually, so far as returned, was about 10,500. This would be 5.40 per cent. of the estimated total number of woman living in wedlock. (This number of marriages in each year would be the number that, at any given time, would have been married, on an average, six months.) It does not, however, include any married outside the State; and probably falls short of the number actually married in Michigan; but as to the proportion not returned we have as yet no means of judging accurately.

In Walford's Insurance Cyclopaedia, article "Fecundity," pp. 197-199, are some facts bearing upon this subject, taken from "Statistics of Families in the Upper and Professional Classes," published in England, by Mr. C. Ansell. In obtaining the "Number of Children to a Marriage," he counted twins as two children. The table includes "2,141 cases in which both parents survived the child-bearing age of the mother, and 447 cases in which the mother died before passing such age, leaving the father surviving her; the cases being restricted to those only in which the return was made by the

father of the children, and in which the date of the birth of the mother, and whether the parents were bachelor and spinster or otherwise at time of marriage were stated. * *

Classifying the data according to the professions of the fathers, the results are shown in the annexed table :

Table Exhibiting the Number of Children to a Marriage in the Upper and Professional Classes in England.

PROFESSION.	Total births including Still-born.	Born Alive.
General	5.50	5.89
Clergymen.....	5.26	5.25
Legal profession.....	5.22	5.18
Medical profession.....	4.96	4.82

[Class 'General' included members of the aristocracy, merchants, bankers, manufacturers and all others not included in the other three classes.]”

It may be observed, in passing, that the number of births to a marriage, as shown by this table, decreases in the order in which I have re-arranged the classes, being largest for the general class, and smallest for the medical profession. This seems to corroborate the view suggested on a previous page, that the reduction of the birth-rate is in part due to intelligent control through a knowledge of the conditions of reproduction. The general public know the least of these natural laws. The clergymen know them much better, and perhaps as well as the lawyers; but to a slight extent the prejudice against any control by man's will may make the number of their children slightly larger than in the lawyer's class. The medical profession know, better than any other class, the physiological conditions of reproduction, and it appears that the number of children to a marriage reaches its lowest limit in the medical profession.

For greater convenience in studying the several statements

included therein, and comparing them with those in the other table for England, Exhibit 3 is constructed and published. The methods by which most of the statements in it have been reached, have been explained. It is worthy of remark that the "Children born alive" to each family of all nativities in the State, as calculated from these statistics, is precisely the same, even to the second decimal place, as is stated of the "General" class in the table concerning the "Number of Children to a Marriage in the Upper and Professional Classes of England." If the view of the compiler is correct, that a low birth-rate is evidence of a high type of individual development, we ought to be satisfied with the evidence of these statistics as they stand. As truth is what is most desired, however, it is to be hoped that we may soon have better data for the determination of these questions. For this purpose we need to know the age of the mother at the time of the birth of the child whose birth is reported, and the number of the child, as to whether first, second, third, etc.

EXHIBIT 3.—*Estimated Ultimate Number of Children to each Family in the State, and in Kalamazoo, Michigan, by Nativity of Mothers.*

NATIVITY OF MOTHERS.		Children to each Family, including Stillbirths.	Children born alive to each Family.*
Calculated from Vital Statistics of Michigan.	All nativities †.....	5.45	5.29
	Native mothers.....	4.12	4.06
	Foreign-born mothers.....	7.70	7.61
Calculated from Dr. Hitchcock's Statistics of Kalamazoo.	All nativities.....	7.60	7.52
	Native mothers.....	6.68	6.62
	Foreign-born mothers.....	9.02	8.92

* For per cent. of stillbirths, see Exhibit —, Number and Proportion of Stillbirths.

† Compare with Class "General" in the table for "Upper Classes in England."

Statistics relative to some other of the United States are desirable for comparison. In Rhode Island the "number of

the child," whether first, second, third, etc., of the same mother, is reported, and on page 61 of the Registration Report for that State for the year 1872, is a table exhibiting the number of all the children reported as having been born in Rhode Island for the sixteen years from 1857-1872. From this table, it has been computed in this office that the number of children which had been borne by the 72,517 mothers was 250,000,—an average of 3.45 children to each mother.

On page 10 of the Report of the Registrar of the city of Providence for the year 1871, is a table exhibiting similar statistics for that city for the 17 years, 1855-1871, from which it appears that 27,921 mothers had borne 95,322 children,—an average of 3.46 children to each mother. Dr. Snow, the Registrar, remarks that "This table only indicates how many children the mothers bearing children * * *had already borne.*" He expresses the opinion that the average number of children to a mother may be accurately ascertained by dividing the whole number of children born during "a long series of years" by the number of mothers who bore their first children in that time. By this method, for the same years, he finds the number to be 4.00 children to each mother. The writer does not share this opinion with Dr. Snow, but believes that however long a series of years be studied in this manner, the result will not approximate the true number of children to each mother, except the population be stationary,—that is, a "fixed population," just maintained by the birth-rate and controlled by the death-rate, and the birth-rate uniform throughout the period. If the birth-rate was constantly decreasing, the number of mothers bearing first children would be disproportionately small, and the number of children to each mother would be stated too large; while if the birth-rate was constantly increasing the reverse of the above proposition would be true. The table on page 11 of the Reg. Report of Providence for 1871, shows that the number of births in each year was increasing through a great part of the time from 1855 to 1871. It therefore seems

certain that the number of children to each mother in Providence is not accurately stated as 4.00, and also that this number is too small.

Is it not possible, however, from the data supplied in the Reg. Reports of Providence and of Rhode Island, to approximate the true number? On a previous page, in commenting upon the statistics collected in this State by Dr. Hitchcock, the writer suggested that, if the families were a fair sample of those in the population, the average number of children they have borne, multiplied by two, will equal the average ultimate number to each family. May not the same principle be applied to these statistics, dealing with mothers instead of families?

On page 9 of the Reg. Report of the city of Providence, for the year 1872, is a table showing that during the 18 years, 1855 to 1872 inclusive, 29,738 mothers had borne children, and the aggregate number of children which these women had borne was 102,668,—an average of 3.45 children to each mother. This is precisely the number and fraction which we have previously found for the whole State of Rhode Island for the years 1857 to 1872, inclusive. If the mothers which bore children during those years were an average of child-bearing women in that locality, the average number of children multiplied by two would give us the average ultimate number of children to each mother, (not to each family, as not all wives are mothers). The average ultimate number of children to each mother in Providence and in Rhode Island would thus appear to be 6.90. But, although this is a much larger number than that reached by Dr. Snow (4.00), it seems possible that it is still too small, and for the same reason as that previously referred to, namely, the too large proportion of mothers bearing first children, on account of the increasing birth-rate. By computing the average in the way I propose, however, the error on this account is, as I believe, greatly reduced, because the period covered is so long that many of the mothers counted

in the first year, by the "first child" plan, only as having borne one child, are by this plan followed through the remaining years, and the children afterwards born to them are therefore included. The error is thus reduced so far as relates to the first years of the period, but, if we can judge from the statistics alone, the average ultimate number of children to each mother in Rhode Island is probably more than 6.90.

In Walford's Insurance Cyclopedia, pp. 190-191, are tables taken from the first Report of the Registrar-General for Scotland, from which it appears that "in 1855 the number of married women who registered the births of children in Edinburgh during that year was 4,208; and these had borne 15,709 children—giving an average of 3.7 children to every mother. In Glasgow, during the same year, 12,365 married women registered a birth,—these had borne 47,180 children—giving the proportion of 3.8 children to every fruitful mother." "Dr. Stark, the medical officer of the Department, says: 'the largeness of the numbers from these two towns gives these tables a value much beyond that of any similar statistics which have yet been published, and the general accordance of the two tables shows that faith may be put in their results, as affording a general and very close approximation to the comparative fruitfulness of each fruitful marriage in Scotland.'"

If we apply to these statistics our method of estimating the average ultimate number of children to each mother, multiplying the averages stated above by two, we find that the statements are as follows: For Edinburgh 7.4, for Glasgow 7.6 children to each fruitful mother in 1855. The compiler has no means of ascertaining at this time whether the birth-rate was increasing, decreasing, or stationary. It is possible that it was decreasing, and, if so, our statement of the average ultimate number of children is too large, for the reason previously explained. It will be noticed that it is a little larger than the average for Rhode Island, the estimate for which, however, we have some reason to believe is too small.

In order to compare these statements with those of the average ultimate number of children to each family, it will be necessary to reduce them for the proportion of wives that bear no children. So far as relates to this country the most available data for this purpose known to the compiler, may be calculated from the statistical table published by Dr. Hitchcock, from which it appears, by our calculation, that in Kalamazoo at that time the statement of the average number of children borne by each mother should be reduced by 13.63 per cent. in order to make it a correct statement of the average number to each family. If we thus reduce the statement for Rhode Island,—6.90 children to each mother,—by 13.63 per cent., we find the estimated number of children to each family to be 5.96. This is only .46 more than Mr. Ansell found true for Class "General" in the "Upper Classes in England," and only .51 more than we found from our Vital Statistics to be the average in Michigan. It is 1.64 less than we have calculated for Kalamazoo, by Dr. Hitchcock's statistics, which, however, it is possible, may make the average too high. The proportion of barren wives in Kalamazoo may be no certain indication of the proportion in Scotland, but in order to compare with the estimates already made, it may be well to use it, provisionally. (By Mr. Ansell's table it appears that in the "Upper Classes in England" the proportion of childless wives was 8.19 per cent. This was among those who had all passed the child-bearing age.) Reducing the 7.4 children to each mother in Edinburgh, and the 7.6 children to each mother in Glasgow, by 13.63 per cent., we find the average number of children to each family to be 6.40 in Edinburgh, and 6.56 in Glasgow. This is respectively .95 and 1.11 children to each family more than computed from the Vital Statistics for this State, and .44 and .60 children to each family more than is computed above for Rhode Island.

On the whole it seems reasonable to conclude that the methods herein proposed will, with proper modifications, enable us to form estimates on this subject which will approximate the truth.

If this is so, the resulting statements are so different from those heretofore worked out by the other methods mentioned that it would seem that the previous results must be wrong, excepting those reached by such methods as that adopted by Mr. Ansell, who obtained, for the comparatively small numbers dealt with, the exact facts required, on schedules prepared by himself. It certainly seems strange that in this enlightened age the statistics are nowhere collected by the proper authorities which will positively decide the question of the average ultimate number of children to each wife or to each mother. It has been proposed to estimate the number by dividing the annual births by the annual marriages; but this will not approach the truth except in a fixed population with a fixed marriage rate and a fixed birth-rate, which conditions nowhere exist. In the 27th Report of the Registrar-General for England, published in 1866, it was attempted to conquer this difficulty, so far as relates to the marriage rate, by dividing the annual births by the marriages for a year preceding the births by the same number of years as the average age of child-bearing mothers exceeded the average age of women at marriage. But even this was not known for England. In Sweden the interval was six years, and a computation for England and Scotland by the above method, using the six year interval found for Sweden, gave results as follows: "In England the births thus determined to a marriage were 4.255, 4.301, 4.304, in the years 1862, 1863, and 1864. In Scotland, the births in 1862 to the average marriages of six years earlier date (1855, 1856, and 1857), were 4.694."* This is so much below the number found by Mr. Ansell for the upper classes in England that it does not seem very probable that it is as near the truth as the statements reached by the methods hereinbefore proposed.

* Walford's Ins. Cyclopedia, Vol. III., Part III., p. 192.

EXHIBIT 4.—Average Number of Children Borne by Fruitful Mothers Living, and the Estimated Average Ultimate Number of Children to each Mother and to each Family (Stillbirths included).

LOCALITY.	AVERAGE ULTIMATE NUMBER OF CHILDREN, INCLUDING STILLBIRTHS.		
	To each Family. ^a	To each Mother.	Average No. of children to each mother already borne by the mothers living in each locality.
Michigan (births 1871-2).....	b 5.45	-----	-----
Kalamazoo, Michigan (1867 and previously).....	c 7.60	8.3	4.4
Rhode Island (fruitful mothers, 1857-1872).....	c 5.96	6.90	3.45
Class "General" in Upper Classes in England.....	d 5.50	-----	-----
Edinburgh (fruitful mothers, 1855).....	c 6.40	7.4	3.7
Glasgow (fruitful mothers, 1855).....	c 6.56	7.6	3.3
Scotland (births 1862, marriages 1855, 1856, 1857).....	a 4.69	-----	-----
England (births 1862-3-4, marriages six years before).....	a 4.80	-----	-----

^a For Scotland and England the statement is to each marriage; and although intended to do so, in the opinion of the compiler it does not show the true number to each family.

^b Computed by compiler's methods from per cent. of births to women aged 15 to 45.

^c Computed by compiler's method, by doubling the average number already borne by each mother, and decreasing by 18.68 per cent., as an allowance for barren wives.

^d Ascertained by schedules prepared by Mr. Ansell.

The results of the preceding examination of the evidence at hand, bearing upon this subject, may now be most conveniently studied in tabular form, and for this the reader is respectfully referred to Exhibit 3, page 62, for the comparisons of births in this State, of native and of foreign-born mothers, and to Exhibit 4, for comparisons of births in this State with the births of some foreign women in their own native homes. To the compiler, the summing up of the evidence seems entirely in harmony with the views which he has already expressed, that the birth-rate is larger among the lower classes, and that its decrease is mainly a result of a tendency toward increased mental and physical development of individuals.

TABLE VIII.—*Exhibiting for the State and Counties of Michigan, by Sex, the Total Number of Children born during the year 1872, and the Parent-Nativity of such Children, so far as stated in the Returns. (Stillbirths included.)*

STATE AND COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. ^a								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
State ^b	Total.....	27,993	12,907	9,721	2,599	1,359	389	410	137	89	333
	Males.....	14,457	6,685	5,018	1,353	717	210	227	72	4 33	• 192
	Females.....	13,458	6,245	4,674	1,241	640	178	180	65	55	175
	Unknown.....	33	27	29	5	2	1	3	.....	1	15
Alcona ^c	Total.....	33	11	14	3	3	.....	.....	1	.....	.....
	Males.....	16	6	8	.....	1	.....	.....	1	.....	.....
	Females.....	16	5	6	3	2	.....	.....	.....	.....	.....
Allegan ^d	Total.....	666	343	200	63	16	20	12	5	.....	7
	Males.....	333	175	101	34	7	5	6	3	.....	2
	Females.....	330	168	98	28	9	14	6	2	.....	5
	Unknown.....	3	.....	1	1	.....	1	.....	.....	.....	.....
Alpena ^e	Total.....	54	14	30	6	2	.....	.....	.....	.....	2
	Males.....	26	7	17	1	.....	.....	.....	.....	.....	1
	Females.....	28	7	13	5	2	.....	.....	.....	.....	1
Antrim.....	Total.....	60	22	25	10	3	.....	.....	.....	.....	.....
	Males.....	35	14	12	3	1	.....	.....	.....	.....	.....
	Females.....	25	8	13	2	2	.....	.....	.....	.....	.....
Barry.....	Total.....	463	330	53	46	24	5	1	3	.....	1
	Males.....	245	177	31	20	12	4	1	.....	.....	.....
	Females.....	218	153	22	26	12	1	.....	3	.....	1

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b For counties and townships from which no returns were received, see Table XXI.

^c Five mothers "America." ^d 4 fathers "America." ^e 1 father "America." 15 mothers "America." ^f 3 mothers "America." ^g 2 fathers "America." ^h 3 fathers "America." 15 mothers "America." ⁱ Except of townships not represented by returns of births in 1872, for which see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	Sex.	Number of Children born.	NATIVITY OF PARENTS. *								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Bay	Total	888	188	816	80	46	82	94	2	2	78
	Males.....	409	72	154	84	21	44	45	.....	1	83
	Females ..	428	65	162	46	25	38	46	2	1	88
	Unknown ..	6	1	.....	.....	.....	.....	8	.....	.....	2
Benzie	Total	75	40	19	8	7	.....	.....	.....	1	.....
	Males.....	40	17	12	4	7	.....	.....	.....	.....	.....
	Females ..	35	23	7	4	.....	.....	.....	.....	1	.....
Berrien	Total	670	885	174	46	19	16	18	4	.....	8
	Males.....	342	191	96	22	10	7	10	3	.....	8
	Females ..	327	198	78	24	9	9	8	1	.....	5
	Unknown ..	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Branch	Total	511	487	28	24	19	.....	.....	8	.....	.....
	Males.....	279	284	21	18	10	.....	.....	1	.....	.....
	Females ..	231	202	7	11	9	.....	.....	2	.....	.....
	Unknown ..	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Calhoun	Total	641	448	101	51	29	2	8	3	3	1
	Males.....	348	282	62	29	14	1	2	1	1	1
	Females ..	298	216	39	22	15	1	1	2	2	.....
Cass °.....	Total	389	277	20	22	11	3	.....	3	.....	3
	Males.....	174	142	9	12	7	1	.....	3	.....	.....
	Females ..	162	183	11	9	4	2	.....	.....	.....	3
	Unknown ..	3	2	.....	1	.....	.....	.....	.....	.....	.....
Charlevoix °..	Total	60	28	18	11	7	.....	.....	.....	.....	1
	Males.....	32	14	7	7	4	.....	.....	.....	.....	.....
	Females ..	28	14	6	4	3	.....	.....	.....	.....	1

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

° One "America."

° Except of townships not represented by returns of births in 1872, for which see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. *								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Cheboygan	Total	74	22	35	11	2	1			1	2
	Males	36	8	30	5	1					2
	Females	37	14	14	6	1	1			1	
	Unknown	1		1							
Chippewa	Total	76	31	18	15	4		1	4		3
	Males	42	16	6	9	3		1	2		5
	Females	34	15	7	6	1			2		3
Clare ^b	Total	19	14	2	2	1					
	Males	9	8			1					
	Females	10	6	2	2						
Clinton	Total	515	345	81	61	27			1		
	Males	233	192	52	25	14					
	Females	232	153	29	36	13			1		
Delta ^c											
Eaton	Total	522	414	23	34	13	17	2	6		13
	Males	274	206	16	22	7	9	2	4		8
	Females	248	208	7	12	6	8		2		5
	Unknown	5	5								
Emmet	Total	51	45	2	2	1			1		
	Males	21	19	1	1						
	Females	30	26	1	1	1			1		
Genesee	Total	599	333	95	60	46	5		1		4
	Males	309	203	43	30	22	4		1		1
	Females	288	185	46	30	23	1				3
	Unknown	2		1		1					

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b Except of townships not represented by returns of births in 1872, for which see Table XXI.

^c No returns.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. ^a								Both unknown.
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Gr. Traverse.	Total.....	88	32	28	12	2	---	2	2	---	8
	Males.....	41	15	15	4	---	---	1	2	---	4
	Females..	42	17	18	8	2	---	1	---	---	1
Gratiot.....	Total.....	851	258	86	82	16	2	1	5	1	---
	Males.....	179	182	14	22	9	---	---	2	---	---
	Females..	172	126	22	10	7	2	1	3	1	---
Hillsdale.....	Total.....	548	424	87	26	16	19	11	4	1	3
	Males.....	273	216	20	12	5	10	5	3	---	2
	Females..	270	203	17	14	11	9	6	1	1	3
Houghton ^b ...	Total.....	468	28	418	12	5	---	---	1	---	9
	Males.....	227	18	198	7	2	---	---	---	---	7
	Females..	284	10	218	5	3	---	---	1	---	2
	Unknown	2	---	2	---	---	---	---	---	---	---
Huron.....	Total.....	323	29	244	29	21	---	---	---	---	---
	Males.....	178	15	125	24	14	---	---	---	---	---
	Females..	145	14	119	5	7	---	---	---	---	---
Ingham.....	Total.....	519	406	65	44	25	---	---	4	---	5
	Males.....	295	219	88	26	18	---	---	2	---	2
	Females..	253	186	82	17	12	---	---	2	---	3
	Unknown	2	1	---	1	---	---	---	---	---	---
Ionia.....	Total.....	622	439	69	65	88	6	---	3	1	6
	Males.....	321	207	45	36	28	5	---	1	---	4
	Females..	299	232	23	29	10	1	---	2	---	2
	Unknown	2	---	1	---	---	---	---	---	1	---
Iosco ^b	Total.....	63	26	16	11	5	1	---	---	1	6
	Males.....	43	17	11	8	2	1	---	---	1	3
	Females..	25	9	5	3	3	---	---	---	---	3

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b Except of townships not represented by returns of births in 1872, for which see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. ^a								Both unknown.
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Isabella	Total	123	93	19	9	4	1	2			
	Males	66	46	9	7	1	1	2			
	Females	61	47	10	2	2					
	Unknown	1				1					
Jackson	Total	697	453	115	60	89	6	3	1	2	
	Males	345	220	60	31	20	5	2	1	1	
	Females	342	233	55	29	19	1	1		1	
	Unknown										
Kalamazoo	Total	624	353	164	54	26	3	3	4		
	Males	311	180	73	23	17	3	2	2		
	Females	310	171	91	26	9	5	1	2		
	Unknown	3	2								
Kalkaska	Total	27	10	13	3						
	Males	16	6	7	2						
	Females	11	4	6	1						
	Unknown										
Kent	Total	1,290	552	457	142	70	22	32	7	4	
	Males	657	293	225	70	32	15	16	3	1	
	Females	629	256	230	71	38	7	16	4	3	
	Unknown	4	1	2	1						
Keweenaw	Total	90	1	65	5	2	12		1		
	Males	44		30	3	1	9				
	Females	46	1	35	2	1	3		1		
	Unknown										
Lake	Total	24	12	6	3	3					
	Males	13	6	4	3						
	Females	11	6	2		3					
	Unknown										
Leapeer	Total	414	169	127	63	47	1	1	2	1	
	Males	218	90	70	30	22	1	1	1	1	
	Females	198	78	55	33	25			1		
	Unknown	8	1	2							

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b Except of townships not represented by returns of births in 1972, for which see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. ^a								Both unknown.
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Leelanaw	Total	158	52	74	16	11					
	Males	80	30	37	9	5					
	Females	78	22	37	8	6					
Lenawee	Total	801	528	149	66	86	1	9	7	3	3
	Males	426	275	83	34	20	1	7	4	1	1
	Females	373	252	65	32	16		1	3	2	2
	Unknown	2	1	1							
Livingston	Total	380	279	48	35	19		1			7
	Males	201	154	24	15	5					3
	Females	179	125	24	20	5		1			4
Mackinac ^b											
Macomb	Total	558	223	155	63	37	22	50	1	1	2
	Males	296	108	85	41	21	13	32			1
	Females	257	119	70	22	16	9	18	1	1	1
Manistee ^c	Total	240	42	103	14	10	13	37	1	3	7
	Males	123	24	58	7	6	12	23	1	1	4
	Females	108	18	55	7	4	6	14		2	2
Manitou	Total	15	2	12	1						
	Males	8	1	7							
	Females	7	1	5	1						
Marquette	Total	563	52	461	31	11		4		2	7
	Males	311	27	247	20	8		3		1	5
	Females	256	25	214	11	3		1		1	1
	Unknown	1									1

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
^b No returns. ^c Except of townships not represented by births in 1872, for which see Table XXI. ^d 1 Father "America." ^e 2 Mothers "America."

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	Sex.	Number of Children born.	NATIVITY OF PARENTS. ^a								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Mason.....	Total.....	148	62	58	21	8	1	1	1	----	1
	Males.....	72	30	27	12	2	-----	-----	-----	-----	1
	Females..	76	32	26	9	6	1	1	1	-----	-----
Mecosta.....	Total.....	171	78	44	22	25	-----	-----	1	-----	1
	Males.....	92	47	20	11	18	-----	-----	-----	-----	1
	Females..	79	31	24	11	12	-----	-----	1	-----	-----
Menominee....	Total.....	29	2	17	6	8	-----	-----	-----	-----	1
	Males.....	16	-----	10	4	2	-----	-----	-----	-----	-----
	Females..	13	2	7	2	1	-----	-----	-----	-----	1
Midland ^b	Total.....	96	54	20	12	8	1	-----	-----	-----	1
	Males.....	55	29	15	4	6	1	-----	-----	-----	-----
	Females..	41	25	5	8	2	-----	-----	-----	-----	1
Missaukee....	Total.....	10	3	3	4	-----	-----	-----	-----	-----	-----
	Males.....	4	2	-----	2	-----	-----	-----	-----	-----	-----
	Females..	6	1	3	2	-----	-----	-----	-----	-----	-----
Monroe ^b	Total.....	688	380	160	54	25	5	2	1	-----	1
	Males.....	318	193	76	25	18	4	1	-----	-----	1
	Females..	320	187	84	29	17	1	1	1	-----	-----
Montcalm ^b ...	Total.....	325	196	89	29	18	31	7	1	-----	4
	Males.....	152	88	17	14	11	18	2	-----	-----	2
	Females..	172	107	22	15	7	13	5	1	-----	2
	Unknown	1	1	-----	-----	-----	-----	-----	-----	-----	-----
Muskegon ^b ...	Total.....	271	97	105	30	14	8	14	2	-----	1
	Males.....	136	54	48	14	8	8	8	1	-----	-----
	Females..	134	42	57	16	6	5	6	1	-----	1
	Unknown	1	1	-----	-----	-----	-----	-----	-----	-----	-----

^a A "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b Except of townships not represented by births in 1872, for which see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	Sex.	Number of Children born.	NATIVITY OF PARENTS. *								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Newaygo ^b	Total	189	74	23	12	13	7	4	3	1	2
	Males.....	71	34	14	4	11	3	---	3	---	2
	Females..	68	40	9	8	2	4	4	---	1	---
Oakland	Total	545	296	57	57	31	42	19	3	1	9
	Males.....	287	164	43	29	13	23	9	2	---	4
	Females..	258	132	44	28	18	19	10	1	1	5
Oceana	Total	218	128	51	11	12	---	---	4	---	12
	Males.....	115	63	30	9	6	---	---	1	---	6
	Females..	103	65	21	2	6	---	---	3	---	6
Ontonagon.....	Total	58	2	51	5	---	---	---	---	---	---
	Males.....	35	1	30	4	---	---	---	---	---	---
	Females..	23	1	21	1	---	---	---	---	---	---
Osceola ^b	Total	106	60	29	7	9	---	---	---	1	---
	Males.....	43	21	17	5	5	---	---	---	---	---
	Females..	58	39	12	2	4	---	---	---	1	---
Ottawa	Total	780	302	347	64	30	1	3	4	6	23
	Males.....	423	162	193	31	16	1	---	2	5	13
	Females..	354	140	151	33	14	---	3	2	1	10
	Unknown	3	---	3	---	---	---	---	---	---	---
Presque Isle ^b ..	Total	26	1	19	2	2	---	2	---	---	---
	Males.....	12	1	10	---	1	---	---	---	---	---
	Females..	14	---	9	2	1	---	2	---	---	---
Saginaw.....	Total	1,224	343	634	118	43	7	16	4	1	8
	Males.....	610	158	353	54	27	3	10	2	---	3
	Females..	609	183	380	64	16	4	6	2	1	3
	Unknown	5	2	1	---	---	---	---	---	---	2

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
^b Except of townships not represented by returns of births in 1873, for which see Table XXI. * 4 Fathers "America." * 12 "America." * Fathers "America." f "America."

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. *								Both unknown.
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Sanilac.....	Total	435	38	299	57	85	---	4	---	1	1
	Males.....	212	21	143	26	20	---	1	---	1	---
	Females..	223	17	156	31	15	---	3	---	---	1
Schoolcraft.....	Total	18	3	6	2	---	---	2	---	---	---
	Males.....	7	1	3	1	---	---	2	---	---	---
	Females..	6	2	3	1	---	---	---	---	---	---
Shiawassee.....	Total	440	291	78	46	22	---	1	---	1	1
	Males.....	226	144	40	26	18	---	1	---	---	---
	Females..	214	147	38	18	9	---	---	---	1	1
St. Clair.....	Total	982	164	592	121	90	4	3	2	1	5
	Males.....	505	77	311	62	49	1	2	2	---	1
	Females..	476	87	280	59	41	3	1	---	1	4
	Unknown	1	---	1	---	---	---	---	---	---	---
St. Joseph.....	Total	395	306	51	18	13	---	---	5	---	3
	Males.....	206	161	22	11	7	---	---	3	---	2
	Females..	189	145	29	7	5	---	---	2	---	1
Tuscola.....	Total	391	190	111	50	38	1	---	3	1	2
	Males.....	195	97	59	25	18	---	---	1	---	---
	Females..	196	93	52	25	20	1	---	2	1	2
Van Buren.....	Total	543	426	39	43	21	3	1	3	2	5
	Males.....	296	232	21	26	10	1	1	2	---	3
	Females..	252	194	18	22	11	2	---	1	2	2
Washtenaw.....	Total	673	310	226	86	40	5	---	2	1	3
	Males.....	339	163	95	50	24	2	---	1	1	3
	Females..	339	147	131	36	16	3	---	1	---	5

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." Mother "America." • Father "America."

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.*							
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.	
							Father.		Mother.	
							Native.	Foreign.	Native.	Foreign.
Wayne.....	Total	4,045	895	2,459	365	146	16	34	17	44
	Males	2,086	462	1,371	189	74	b 9	c 21	9	17
	Females	1,929	426	1,175	176	73	7	e 18	8	27
	Unknown	80	7	13	1	-----	-----	-----	-----	9
Wexford '.....	Total	21	17	3	1	-----	-----	-----	-----	-----
	Males	10	8	2	-----	-----	-----	-----	-----	-----
	Females	11	9	1	1	-----	-----	-----	-----	-----

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
 b 1 mother "America." c 2 mother "America." d 3 "America." e 4 "America."
 f Except of townships not represented by returns of births in 1872, for which see Table XXI.

TWINS.

By comparing Table IX. with Table II., on page 3, it will be seen that the order of greatest number of twins by months was not the same as of all births, although there was a general correspondence. As a general rule in both cases, the least numbers were reported in the first months of the year. This is believed to be due, in great part, to omissions in enumerating, because of the length of time which elapses before the supervisors and assessors go around to collect and record the births,—the longer the time the greater the proportion of births omitted. The only remedy which seems practicable, is to provide for having the births placed upon a public record by the parents, or by the physician in attendance.

TABLE IX.—*Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children returned as having been born in Michigan during the Year 1872, by Months arranged in order by Number; also, by Pairs and by Individuals the Number of Males to 100 Females.*

YEAR AND MONTHS.	NUMBER OF TWIN CHILDREN.				NUMBER OF PAIRS OF TWINS.						
	Total.	Males.	Females.	Males to 100 Females.	Total.	Males.	Females.	One of each.	Males to 100 one of each Sex.	Males to 100 Females.	
Year 1872	684	326	358	91	342	103	119	120	86	87	
More than the average number of twins.	September..	76	31	45	69	38	10	17	11	91	59
	December...	74	41	33	124	37	15	11	11	136	136
	August	64	26	38	68	32	9	15	8	118	60
	April	62	34	28	121	31	12	9	10	120	133
	June.....	58	31	27	115	29	10	8	11	91	125
	November..	58	34	24	142	29	11	6	12	92	138
Average per month	57.0	27.2	29.8	-----	23.5	8.5	9.9	10.0	-----	-----	
Less than the average number of twins.	July	56	23	33	70	28	6	11	11	55	55
	March	54	25	29	86	27	8	10	9	89	80
	May	54	26	28	98	27	9	10	8	118	90
	October.....	54	28	31	74	27	6	10	11	55	60
	February ...	44	17	27	63	22	2	7	13	15	22
	January	30	15	15	100	15	5	5	5	100	100

In Table IX. it may be noticed that the order of greatest number of pairs of twins in 1872 was: One of each sex, 120; both females, 119; both males, 103 pairs. In 1871, the order was, one of each sex, males, females; while in 1870 it was males, one of each sex, females. In 1871, the whole number of twins was less than in 1870, and the proportion of males was increased. In 1872, we find the whole number of twins greater than in either of the other years mentioned, and the proportion of males is decreased. This adds one more instance of agreement with a proposition published on page 78 of the Report for 1870, to the effect that "causes tending to increase

the birth-rate tend also to increase the proportion of female offspring, this being equivalent to decreasing the proportion of males." The number of males to 100 females was, in 1872, 91; in 1871, 113; in 1870, 107.

TABLE X.—*Parent-Nativity of Twins Born in Michigan during the year 1872.*

NATIVITY OF PARENTS.	TWINS.							
	No. of Pairs.				PER CT. OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.			
	Total.	Males.	Females.	One of each sex.	Total.	Males.	Females.	One of each sex.
All nativities.....	842	108	118	121	100.00	100.00	100.00	100.00
Both native.....	152	41	60	51	44.44	39.80	50.85	42.15
Both foreign.....	183	44	48	46	88.89	42.72	36.44	38.02
Foreign father and native mother.....	27	9	6	12	7.89	8.74	5.08	9.92
Foreign mother and native father.....	15	7	2	6	4.39	6.80	1.69	4.96
Unknown mother, father native.....	4	---	2	2	1.17	---	1.69	1.65
Unknown mother, father foreign.....	4	---	2	2	1.17	---	1.69	1.65
Unknown father, mother native.....	1	1	---	---	.29	.97	---	---
Unknown father, mother foreign.....	2	---	1	1	.58	---	.85	.33
Both unknown.....	4	1	2	1	1.17	.97	1.69	.33
One or both native.....	199	58	70	71	58.19	56.81	59.82	58.68
One or both foreign.....	181	60	54	67	52.92	58.25	45.76	55.37

Table X. should be compared with Table VII., on page 44. It will be seen that the per cent. born of foreign parents is greater among twins than it is in all births.

EXHIBIT 5.—*By Nativity and by Color of Mothers, the Number and Proportion of Twins, in Michigan, during the Years 1871 and 1872.*

NATIVITY AND COLOR OF MOTHERS.	1871.			1872.		
	Number of Pairs of Twins.	Whole Number of Mothers including those of Twins.	Per Cent. of Births of Twins to all Mothers.	Number of Pairs of Twins.	Whole Number of Mothers including those of Twins.	Per Cent. of Births of Twins to all Mothers.
Mothers of all colors and all nativities	293	25,688	1.16	342	27,641	1.24
All native mothers.....	148	13,496	1.10	180	15,459	1.16
All foreign mothers.....	114	10,141	1.12	150	11,015	1.36
Mothers of unknown nativities..	36	2,051	1.76	12	1,167	1.03
White.....	290	25,268	1.15	337	27,188	1.24
Black.....	1	185	.54	* 8	121	2.43
Mulatto.....	2	81	6.45	.....	59	.....
Indian.....	8	183	2.27	1	169	.59
Unknown.....	2	77	2.60	1	104	.96
Black and Mulatto.....	8	216	1.89	* 8	180	1.67

* 1 "colored" and 1 "negro."

Exhibit 5 renders it easy to compare the native and foreign, and the white and colored, mothers, as regards the relative proportion of such mothers that bear twins. It will be seen that the native mothers have the smallest proportion of twins, and that the white mothers have a smaller proportion than do the mothers of African descent. This being a new Exhibit and only covering two years, the evidence is not yet very conclusive. It seems to be in harmony with the proposition that the physical tendency toward reproduction is lessened among the most highly cultivated classes, which tend rather toward individual maintenance and development.

EXHIBIT M.—Parent-Nativity of Twins born in Michigan during the Years 1870, 1871, and 1872,—Relation of Native and Foreign-born Parents to Native and Foreign-born Population.

NATIVITY OF PARENTS OF TWINS, AND NATIVITY OF INHABITANTS.	NATIVE AND FOREIGN-BORN POPULATION, JUNE 1, 1870.			PARENTS OF TWINS BORN IN 1870, 1871, AND 1872.						
	Total.	Males.	Females.	Year.	Number.			Per ct. of Parents to population of same sex and nativity.		
					Both Parents.	Father.	Mother.	Both Parents.	Father.	Mother.
All nativities..... a	1,158,156	608,655	554,511	1870	620	810	810	.05	.05	.06
Native..... b	904,740	468,422	441,818		377	188	194	.04	.04	.04
Foreign..... c	253,426	140,233	113,193		243	127	116	.10	.09	.10
All nativities..... a	1,147,284	597,768	549,466	1871	524	262	262	.05	.04	.05
Native..... b	894,202	457,914	436,288		288	140	148	.08	.08	.06
Foreign..... c	253,082	139,854	113,178		236	122	114	.09	.09	.10
All nativities..... a	1,169,288	609,946	569,887	1872	654	827	827	.06	.05	.06
Native..... b	908,625	465,886	443,289		346	167	179	.04	.03	.04
Foreign..... c	260,658	144,560	116,098		308	160	148	.12	.11	.13

a Excludes parents of unknown nativities.

b Excluding cases where nativity of either parent is unknown.

c Except of counties and townships not represented by births in 1870.

d Except of counties and townships not represented by births in 1871.

e Except of counties and townships not represented by births in 1872.

Compare Exhibit M with Exhibit H.

By Exhibit M, it will be seen that the relation of native to foreign parents of twins differs from that shown for all births in Exhibit J, p. 49, the proportion of twins born of foreign-born parents being greater than was the proportion of single births. To the compiler the most reasonable inference is that this is one of the illustrations of the law of greater tendency to reproduction because of lower type of individuation among the foreign-born. On a previous page it has been suggested that the smaller birth-rate among the native-born inhabitants may be in great part due to intelligent self-control through a better knowledge of the laws of reproduction. This explana-

tion will not apply to the still smaller proportion of twins among the native-born inhabitants. But if it cannot be attributed to mental, it may yet be due to physical individuation. This principle is well understood by stock-breeders; at least in so far as that when reproduction does not occur they can sometimes secure offspring from their high-bred and high-fed animals by such means as tend to reduce their tendency to store up fat.

TABLE XI.—*Parent-Nativity of Twins born in Michigan during the year 1872,—distinguishing between Parents Natives of the same State, and those born in different States or Countries.*

NATIVITY OF PARENTS.	PAIRS OF TWINS.							
	NUMBER.				PER CENT. OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.			
	Total.	Males.	Females.	One of each.	Total.	Males.	Females.	One of each.
All nativities	342	103	118	121	100.00	100.00	100.00	100.00
Same American or Foreign State.....	209	62	78	69	61.11	60.19	66.10	57.02
Different American or Foreign State...	76	23	25	28	22.22	22.83	21.19	23.14
Foreign father and native mother.....	27	9	6	12	7.89	8.74	5.08	9.92
Foreign mother and native father.....	15	7	2	6	4.39	6.80	1.69	4.96
Unknown mother, father native.....	4	---	2	2	1.17	---	1.69	1.65
Unknown mother, father foreign.....	4	---	2	2	1.17	---	1.69	1.65
Unknown father, mother native.....	1	1	---	---	.29	.97	---	---
Unknown father, mother foreign.....	2	---	1	1	.58	---	.85	.83
Both unknown.....	4	1	2	1	1.17	.97	1.69	.83
Different State or country *......	118	39	38	46	34.50	37.86	27.97	33.02

* Includes "Different American or Foreign State," "Foreign father and native mother," and "Foreign mother and native father." Compare with "Same American or foreign State."

Table XI. may be compared with Table XV., for stillbirths.

TABLE XII.—*Exhibiting for the State and Counties, by Sex, the Number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins born in Michigan during the year 1872. Nativity stated by Pairs of Twins.*

STATE AND COUNTIES.		SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS. ^a										
					Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unk'n.		Father Unk'n.		Unknown.
					Both parents from same State.	From different States.	Both from same country.	From different countries.			Father.	Mother.			
STATE		Total ...	681	842	86	66	123	10	27	15	4	4	1	2	4
		Males...	327	103	b 20	c 21	d 42	2	9	7	---	---	f 1	---	1
		Females	357	118	b 39	d 21	e 39	4	6	2	2	2	---	f 1	g 2
		One each	---	121	h 27	24	d 42	4	f 12	6	2	2	---	1	1
Alcona		Total ...	2	1	1	---	---	---	---	---	---	---	---	---	---
		Males...	---	---	---	---	---	---	---	---	---	---	---	---	---
		Females	2	1	1	---	---	---	---	---	---	---	---	---	---
		One each	---	---	---	---	---	---	---	---	---	---	---	---	---
Allegan		Total ...	80	15	3	5	4	---	2	---	---	---	---	---	1
		Males...	16	4	3	---	---	---	1	---	---	---	---	---	---
		Females	14	3	---	1	1	---	---	---	---	---	---	d 1	---
		One each	---	8	---	4	3	---	1	---	---	---	---	---	---
Alpena		Total ...	2	1	---	---	1	---	---	---	---	---	---	---	---
		Males...	---	---	---	---	---	---	---	---	---	---	---	---	---
		Females	2	1	---	---	1	---	---	---	---	---	---	---	---
		One each	---	---	---	---	---	---	---	---	---	---	---	---	---
Barry		Total ...	6	3	2	---	---	---	1	---	---	---	---	---	---
		Males...	2	1	---	---	---	---	1	---	---	---	---	---	---
		Females	4	2	b 2	---	---	---	---	---	---	---	---	---	---
		One each	---	---	---	---	---	---	---	---	---	---	---	---	---

* See foot-note * to Table VIII. b $\frac{1}{2}$ pair still-born. c 1 pair "colored," 1 pair "negro." d 1 pair still-born. e $\frac{1}{2}$ pair still-born. f 1 pair illegitimate. g 1 pair illegitimate, 1 pair still-born. h 1 pair color unknown, 3 pairs still-born. i 1 pair father "America."

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.*										
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Unknown.
				Both Parents from same State.	From different States.	Both from same country.	From different countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Bay.....	Total....	24	12	.....	.....	8	1	.....	.....	1	2	.....	.....	.....
	Males....	8	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	16	6	.....	.....	5	.....	.....	.....	.....	1	.....	.....	.....
	One each..	.....	4	.....	.....	1	1	.....	.....	1	1	.....	.....	.....
Benzie.....	Total....	2	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	2	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Berrien.....	Total....	18	9	8	5	.....	.....	.....	.....	.....	1	.....	.....	.....
	Males....	9	3	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	9	3	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One each..	.....	3	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Branch.....	Total....	14	7	3	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Males....	10	4	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	4	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One each..	.....	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Calhoun.....	Total....	10	5	2	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Males....	5	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	5	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One each..	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cass.....	Total....	12	6	2	3	1	.....	.....	.....	.....	.....	.....	.....	.....
	Males....	7	3	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	5	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One each..	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Cheboygan..	Total....	4	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
	Males....	2	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	2	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Clare.....	Total....	2	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Males....	2	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....

* See foot-note * to Table VIII. b 1 pair "colored." c 1 pair "negro."

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS. *										
				Native.		Foreign.		Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	Mother Unk'n.		Father Unk'n.		Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Clinton	Total	30	15	5	4	4		2						
	Males	8	2	1		1								
	Females	22	9	4	3	1		1						
	One each		4		1	2		1						
Eaton	Total	8	4	1	2									1
	Males	4	2		1									1
	Females	4	2	1	1									
	One each													
Genesee	Total	6	3	1	1			1						
	Males	4	1	1										
	Females	2												
	One each		2		1			1						
Gr. Travers	Total	4	2		1									1
	Males	2												
	Females	2												
	One each		2		1									1
Gratiot	Total	10	5	1	2	1	1							
	Males	2												
	Females	8	3	1	1	1								
	One each		2		1		1							
Hillsdale	Total	16	8	4	3							1		
	Males	10	4	1	2							1		
	Females	6	2	2										
	One each		2	1	1									
Houghton	Total	6	3			3								
	Males	2	1			1								
	Females	4	2			2								
Huron	Total	4	2			1		1						
	Males	4	2			1		1						

* See foot-note * to Table VIII. † Illegitimate. ° ½ pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS. *											
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unk'n.		Father Unk'n.		Unknown.	
				Both parents from same State.	From different States.	Both from same country.	From different countries.			Father.		Mother.			
										Native.	Foreign.	Native.	Foreign.		
Ingham	Total	16	8	5	1	2									
	Males	7	1		1										
	Females	9	2	2											
	One each		5	3		2									
Ionia	Total	12	6	2	3				1						
	Males	6	1		1										
	Females	6	1		1										
	One each		4	2	1				1						
Iosco	Total	2	1	1											
	Males	1													
	Females	1													
	One each		1	1											
Jackson	Total	24	12	4	1	3	1	2	1						
	Males	12	2			1		1							
	Females	12	2	1			1								
	One each		8	3	1	2		1	1						
Kalamazoo	Total	8	4	2		2									
	Males	2													
	Females	6	2			2									
	One each		2	2											
Kalamazoo	Total	4	2			1		1							
	Males	4	2			1		1							
Kent	Total	20	15	3	3	5		2	1					1	
	Males	12	2			1		1							
	Females	18	5	2	1			1					1		
	One each		8	1	2	4			1						

* See foot-note * to Table VIII. ^b 1 pair still-born. ^c Still-born. ^d 1 pair still-born, unknown color. ^e Illegitimate.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS. *										
				Native.		Foreign.		Foreign Father and Na- tive Mother.		Mother Unk'n.		Father Unk'n.		
				Both parents from same State.	From different States.	Both from same country.	From different Countries.	Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	Father.		Mother.		Unknown.
										Native.	Foreign.	Native.	Foreign.	
Lapeer.....	Total....	10	5			5								
	Males....	8	1			1								
	Females...	7	3			3								
	One each	1	1			1								
Leelanaw....	Total....	6	4	2	1	1								
	Males....	4	2	b 1	1									
	Females...	4	2	1		1								
Lenawee....	Total....	16	8	8	3	1			1					
	Males....	6	2	1					1					
	Females...	10	4	2	1	1								
	One each	2	2		2									
Livingston..	Total....	2	1	1										
	Females...	2	1	1										
Macomb.....	Total....	18	9	8		2		1	2	1				
	Males....	11	4			1		1	2					
	Females...	7	2	2										
	One each	3	1			1				1				
Marquette..	Total....	14	7			6	1							
	Males....	7	1			1								
	Females...	7	1			c 1								
	One each	5				c 4	1							
Mason.....	Total....	6	3	1				2						
	Males....	4	1	1										
	Females...	2												
	One each	2						2						
Mecosta....	Total....	6	3			1	1		1					
	Males....	1												
	Females...	5	2				1		1					
	One each	1				1								

* See foot-note * to Table VIII.

b Indian.

c 1 pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	NATIVITY OF PARENTS. ^a										
			Number of Pairs of Twins.	Native.		Foreign.		Foreign Father and Native Mother.		Mother Unk'n.		Father Unk'n.	
				Both parents from same State.	From different States.	Both from same country.	From different countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unk'n.		Father Unk'n.	
										Father.	Mother.	Unknown.	
Menominee	Total	2	1			1							
	Males	2	1			1							
Monroe	Total	10	8	8		1		1					
	Males	6	8	2				1					
	Females	4	2	1		1							
Montcalm	Total	12	6	2	1	2				1			
	Males	5	1			1							
	Females	7	2		1					1			
	One each		8	2		1							
Muskegon	Total	4	2		1		1						
	Males	1											
	Females	8	1				1						
	One each		1		1								
Newaygo	Total	4	2			1			1				
	Males	8	1			1							
	Females	1											
	One each		1					1					
Oakland	Total	12	6	1	1		1	2		1			
	Males	1											
	Females	11	5		1		1	2		1			
	One each		1	1									
Oceana	Total	8	4	2	1	1							
	Males	8	1			1							
	Females	5	2	2									
	One each		1		1								
Ontonagon	Total	2	1			1							
	Males	2	1			1							

^a See foot-note ^a to Table VIII. ^b Still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS. *										
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unk'n.		Father Unk'n.		Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Ottawa	Total	28	14	5	2	6							1	
	Males	16	6	2	1	3								
	Females	12	4	2	1	1								
	One each		4	1		2							1	
Saginaw	Total	24	12	2		9				1				
	Males	18	5	1		4								
	Females	11	4			3				1				
	One each		3	1		2								
Sanilac	Total	24	12	1		7		3	1					
	Males	15	5	1		2		1	1					
	Females	9	2			2								
	One each		5			4		2						
Shiawassee	Total	18	9	3	2	1	1	1	1					
	Males	9	3	1	1		1							
	Females	9	3	1	1				1					
	One each		3	1		1		1						
St. Clair	Total	28	14	3		8		1	2					
	Males	15	6	1		4			1					
	Females	10	2	1				1						
	One each		6	1		4			1					
St. Joseph	Total	4	2		1				1					
	Males	2												
	Females	2												
	One each		2		1				1					
Tuscola	Total	4	2		1			1						
	Males	1												
	Females	3	1		1									
	One each		1					1						

* See foot-note * to Table VIII. b 1 "Colored." c Father "America." d 1 Illegitimate. e $\frac{1}{2}$ pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS. a										
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unk'n.		Father Unk'n.		Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			Father.		Mother.		
										Native.	Foreign.	Native.	Foreign.	
Van Buren.	Total ...	24	12	6	5	...	...	1	...	...	...	...	...	...
	Males...	9	1	1	...	...	...	...	...	...	...	...	...	...
	Females	15	4	3	1	...	...	...	...	...	...	...	...	...
	One each	...	7	2	4	...	...	1	...	...	...	...	...	...
Washtenaw	Total ...	12	6	1	2	3	...	...	...	...	...	...	...	...
	Males...	8	1	...	...	1	...	...	...	...	...	...	...	...
	Females	9	4	1	1	2	...	...	...	...	...	...	...	...
	One each	...	1	...	1	...	...	...	...	...	...	...	...	...
Wayne.....	Total ...	78	39	2	3	27	2	3	1	...	...	...	...	1
	Males...	41	16	...	2	11	1	1	1	...	...	...	...	...
	Females	37	14	2	1	9	...	1	...	...	...	...	...	c 1
	One each	...	9	...	...	7	1	1	...	...	...	...	...	...

^a See foot-note ^a to Table VIII. ^b 1 pair still-born. ^c Illegitimate.

TABLE XIII.—*Occupations of Fathers of Twins born in Michigan during the year 1872, according to the Returns.*

OCCUPATIONS.	No. of Each.	OCCUPATIONS.	No. of Each.
All occupations.....	842	Joiner.....	1
Agents.....	2	Laborers.....	48
Baggageman.....	1	Lawyer.....	1
Baker.....	1	Liquor Dealer.....	1
Banker.....	1	Locksmith.....	1
Barber.....	1	Lumberman.....	1
Blacksmith.....	1	Machinists.....	2
Brass Founder.....	1	Manufacturer.....	1
Brewer.....	1	Masons.....	4
Butcher.....	1	Mechanics.....	2
Cabinet-maker.....	2	Merchants.....	6
Captain on Lakes.....	1	Miners.....	3
Car Builder.....	1	Miscellaneous.....	2
Car Driver.....	1	Painters.....	3
Carpenters.....	19	Photographer.....	1
Carpenter and Joiner.....	1	Physician.....	1
Chair Manufacturer.....	1	Produce Dealer.....	1
Clerks.....	3	Puddler.....	1
Coopers.....	5	Sailors.....	2
Engineer, R. R.....	1	Saloon-keepers.....	2
Engineers.....	2	Shoemakers.....	5
Farmers.....	179	Stone-mason.....	1
Farmer and Vine-grower.....	1	Stone-cutter.....	1
Fisherman.....	1	Teacher.....	1
"Freight Business".....	1	Tinsmith.....	1
Gardener.....	1	Tobacconist.....	1
Glue-maker.....	1	Trader.....	1
Grocers.....	5	Unemployed.....	1
Harness-makers.....	2	Weaver.....	1
Hoop-maker.....	1	Unknown.....	5
Hotel-keeper.....	1		

STILLBIRTHS.

The accurate return of stillbirths is so difficult to accomplish, that very little reliance can as yet be placed upon comparative statements for the different years.

Exhibit 6 enables us to see the proportion of stillbirths according to the returns of births. By turning to a similar new exhibit among the tables of deaths, it will be seen that no certain results can be attained from either set of tables, as now returned and compiled.

It is hoped that supervisors will soon make these statements more valuable, by being more careful to report them both among the births and the deaths. For statistical purposes, stillbirths should be considered under both these heads.

Now the necessity for it is known, it is probable that such a comparison of the stillbirths returned on both sets of blanks will hereafter be made in this office, that much more accurate statements can be reached.

EXHIBIT 6.—*The Relation of Still-born to all Children returned as having been Born in Michigan during the several years, 1868 to 1872, inclusive, and of the Mothers of Still-born to all Mothers returned as having borne Children during each of the years 1871 and 1872.*

CHILDREN AND MOTHERS.	TOTAL BIRTHS AND STILLBIRTHS.				
	1868.	1869.	1870.	1871.	1872.
All Children born	19,171	27,098	26,668	25,992	27,998
Still-born Children.....*	46	141	74	88	301
Per Cent. of Still-born to Total.....	.28	.52	.28	.34	1.08
All Mothers.....	-----	-----	-----	25,688	27,641
Mothers of Still-born Children.....*	-----	-----	-----	86	298
Per Cent. of Mothers of Still-born Children to all Mothers.....	-----	-----	-----	.38	1.06

* As per returns of births.

EXHIBIT 7.—By Nativity and Color, the Number and Proportion of Mothers having Stillbirths in Michigan during each of the years 1871 and 1872.

NATIVITY AND COLOR OF MOTHERS.	1871.			1872.		
	Mothers having Stillbirths.	Whole number of Mothers including those of Stillbirths.	Per ct. of Mothers of Still-born to all Mothers.	Mothers having Stillbirths.	Whole number of Mothers including those of Stillbirths.	Per ct. of Mothers of Still-born to all Mothers.
Mothers of all colors and nati- vities.....	86	25,638	.33	293	27,641	1.06
All native mothers.....	40	13,496	.30	146	15,459	.34
All foreign mothers.....	34	10,141	.34	120	11,015	1.09
Mothers of unknown nativities..	12	2,051	.59	27	1,167	2.31
White.....	83	25,263	.33	286	27,133	1.05
Black.....	1	185	.54	2	121	1.65
Mulatto.....	1	31	3.23	—	59	—
Indian.....	—	183	—	—	169	—
Unknown.....	1	77	1.30	5	104	4.31
Black and mulatto.....	2	216	.93	2	180	1.11

* 1 "African,"

Exhibit 7 is another new combination which will eventually yield valuable information. Its evidence is probably more reliable than that in Exhibit 6, though it may be improved and modified hereafter. So far, it appears that the native mothers have the smallest proportion of stillbirths, and that the white mothers have a smaller proportion than do the mothers of African descent.

TABLE XV.—Parent-Nativity of Still-born Children,—Exhibiting, by Sex, the Number and Per Cent. of Total Number Born in Michigan during the Year 1872, of Parents who were Natives of the same, and of Different States or Countries.

NATIVITY OF PARENTS.	STILL-BORN CHILDREN.							
	Number.				Per Cent. of each Parent-Nativity to Total of all Nativities.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities.....	801	143	117	41	100.00	100.00	100.00	100.00
Same American or Foreign State.....	^a 167	^a 79	65	28	55.48	55.24	55.56	54.10
Different American or Foreign State....	72	34	31	7	23.92	23.75	26.50	17.07
Foreign Father and Native Mother.....	17	4	8	5	5.65	2.80	6.84	12.20
Foreign Mother and Native Father.....	15	8	5	2	4.98	5.59	4.27	4.68
Unknown Mother, Father Native.....	6	4	2	—	1.99	2.80	1.71	—
Unknown Mother, Father Foreign.....	10	6	2	2	3.32	4.20	1.71	4.68
Unknown Father, Mother Native.....	2	1	1	—	.66	.70	.85	—
Unknown Father, Mother Foreign.....	—	—	—	—	—	—	—	—
Both unknown.....	12	7	8	2	3.99	4.90	2.56	4.68
Different State or Country.....	104	46	44	14	^b 34.55	32.17	37.61	34.15
Native.....	181	61	59	11	43.52	42.66	50.48	28.28
Foreign.....	108	52	37	19	35.85	36.86	31.02	46.34

^a One unknown State, returned "United States."

^b Compare with same statement for twins in Table XI., page 88.

ILLEGITIMATE CHILDREN.

Now that a comparison as to proportion of illegitimate to all children may be begun by years, Exhibit 8 has been planned for this purpose. It will be seen that, according to the returns, the proportion is between 50 and 75 illegitimate in 10,000 births.

In order to avoid slight errors in thought which might otherwise occur, and also for comparison with twins and other births, the proportions are worked out for mothers as well as for children; the difference between the two arising from the fact of multiple births.

EXHIBIT 8.—*The Relation of the Illegitimate Children to All Children returned as having been born during the several years 1868 to 1872 inclusive, and of Mothers of Illegitimates to All Mothers returned as having borne Children in Michigan, during each of the years 1871 and 1872.*

CHILDREN AND MOTHERS.	TOTAL BIRTHS AND ILLEGITIMATES.				
	1868.	1869.	1870.	1871.	1872.
All children born.....	19,171	27,093	26,668	25,992	27,993
Illegitimate children.....	104	187	155	183	199
Per cent. of illegitimate to total.....	.54	.51	.58	.70	.71
All mothers.....				25,688	27,641
Mothers of illegitimate children.....				191	195
Per cent. of mothers of illegitimates to all mothers.....				.70	.71

Exhibit 9 has been prepared to show the relative proportion of illegitimate children among the children of native and foreign-born mothers, and of mothers in the different races. As regards the nativity of the mothers, little can be ascertained, for the reason that the returns are so incomplete. It will be seen that, compared with the white mothers, about four or five times as many illegitimate are reported for the colored races.

EXHIBIT 9.—By Nativity and Color, the Number and Proportion of Mothers of Illegitimate Children Returned as having been born in Michigan during each of the years 1871 and 1872.

NATIVITY AND COLOR OF MOTHERS.	1871.			1872.		
	Mothers having illegitimates.	Whole No. of Mothers, including those of illegitimates.	Per ct. of Mothers of illegitimates to all Mothers.	Mothers having illegitimates.	Whole No. of Mothers, including those of illegitimates.	Per ct. of Mothers of illegitimates to all Mothers.
Mothers of All Colors and Nativities.....	181	25,688	.70	195	27,641	.71
All Native Mothers.....	75	18,496	.56	99	15,459	.64
All Foreign Mothers.....	73	10,141	.72	64	11,015	.58
Mothers of Unknown Nativities.....	83	2,051	1.61	82	1,167	2.74
White.....	152	25,268	.60	176	27,188	.63
Black.....	a 9	185	4.86	c 2	121	1.68
Mulatto.....	2	81	6.45	6	59	10.17
Indian.....	b 5	132	6.06	d 9	169	5.39
Unknown.....	10	77	12.99	2	104	1.92
Black and Mulatto.....	11	216	5.09	8	180	4.44

a 1 "African," 4 "Colored," 1 "Negro."

b 1 " $\frac{3}{4}$ White," 2 " $\frac{1}{8}$ White."

c 1 "Colored."

d 2 "Copper-colored," 1 "Half-breed."

TABLE XVI.—*Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan, during the Year ending December 31, 1872.*

SEX.	YEAR 1872.	MONTHS.												NATIVITY OF MOTHERS.						NATIVITY OF FATHERS.										
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Total.	Born in Mich-igan.	Born in other States.	FOREIGN.			Total.	Born in Mich-igan.	Born in other States.	FOREIGN.			Total.	Born in Mich-igan.	Born in other States.	Unknown.
		12	11	24	22	17	20	13	18	15	9	13	25	...				101	62	39				65	25	87					88	29	18	16	20	8	12	150	Unknown.
Total.....	199	12	11	24	22	17	20	13	18	15	9	13	25	...	101	62	39	65	25	87	88	29	18	16	20	8	12	150	Unknown.	
Males.....	a 96	8	5	11	12	6	5	5	9	6	5	8	18	...	50	33	17	27	12	15	19	19	7	12	8	3	5	69	Unknown.	
Females....	c 101	4	6	12	10	11	12	8	9	9	4	5	11	...	51	29	22	38	16	22	12	10	6	4	12	5	7	79	Unknown.	
Unknown...	2	1	1	2

a 8 Mulatto, 2 Indian, 1 "Colored," 1 Unknown color. b 1 "America." c 1 Black, 2 "Copper-colored," 4 Indian, 1 "Half-breed," 8 Mulatto, 1 Unknown color.

TABLE XVII.—*Exhibiting, by Color and by Sex, the Population June 1, 1870, the Number of Illegitimate Children Born in Michigan during the Year 1872, the Per Cent. of such Children to Inhabitants, the Per Cent. of each Sex to the total of both Sexes, and the Number of Inhabitants to each Illegitimate Child Born.*

COLOR OR RACE.	SEX.	Population June 1, 1870, Represented by Births in 1872.	Total Illegitimate Births.	Per Cent. of Births to Population.	Per Cent. of each Sex to Total of both Sexes.	No. of Inhabitants to one Illegitimate Child of the same Color.
All Colors.....	Total	1,169,858	199	.02	-----	5,876
	Males.....	609,994	96	.02	48.78	6,354
	Females	559,864	101	.02	51.27	5,588
	Unknown..	-----	2	-----	-----	-----
White.....	Total	1,158,177	180	.02	-----	6,407
	Males.....	601,578	89	.01	50.00	6,759
	Females	551,599	89	.02	50.00	6,198
	Unknown..	-----	2	-----	-----	-----
Black.....	Total	5,515	9	.04	-----	2,758
	Males.....	3,048	^a 1	.08	50.00	3,048
	Females	2,472	1	.04	50.00	2,472
Mulatto.....	Total	6,197	6	.10	-----	1,083
	Males.....	3,128	3	.10	50.00	1,043
	Females	3,069	3	.10	50.00	1,023
Indian.....	Total	4,464	9	.20	-----	496
	Males.....	2,245	2	.09	22.22	1,123
	Females	2,219	^b 7	.32	77.78	317
Unknown Color	Total	-----	2	-----	-----	-----
	Males.....	-----	1	-----	50.00	-----
	Females	-----	1	-----	50.00	-----
Black & Mulatto	Total	11,712	8	.07	-----	1,464
	Males.....	6,171	4	.06	50.00	1,543
	Females	5,541	4	.07	50.00	1,385

^a "Colored," 1.

^b "Copper-colored," 2; "Half-breed," 1.

BIRTHS OF ILLEGITIMATE CHILDREN AND TRIPLETS. 101

TABLE XVIII.—*Exhibiting the Number of Males to 100 Females, and by Sex the Number and Per Cent. of Total Number of Illegitimate Children Born of Native and of Foreign Parents in Michigan during the Year 1872.*

NATIVITY OF PARENTS.		ILLEGITIMATE CHILDREN.								
		Number of Males to 100 Females.	Number.				Per Cent. of Total.			
			Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities.....		95	* 199	96	101	2	100.00	100.00	100.00	100.00
Mothers.*	{ Native.....	96	101	50	51	.....	50.75	52.08	50.50	.....
	{ Foreign.....	71	65	27	38	.....	32.66	28.13	37.62	.....
	{ Unknown...	158	83	19	12	2	16.58	19.69	11.88	100.00
Fathers.*	{ Native.....	190	29	19	10	.....	14.57	19.69	9.90	.....
	{ Foreign.....	67	20	8	12	.....	10.06	8.88	11.88	.....
	{ Unknown...	87	150	69	79	2	75.38	71.68	78.22	100.00

* There are four pairs of illegitimate twins. The number of fathers, and of mothers, is 195.

TABLE XIX.—*Exhibiting the Details concerning Triplet Children Born in Michigan during the year 1872.*

COUNTIES.	CHILDREN.				PARENTS.		
	Months of Birth.	Color.	Sex.		Birthplace of Father.	Birthplace of Mother.	Occupation of Father.
			Males.	Females.			
Houghton....	December..	White.	1	* 2	Ireland	Ireland	Miner.
Ionia	February ..	White.	.....	b 3	England.....	England	Farmer.
Ionia	July	White.	.....	b 3	Ireland	Ohio.....	Minister.
Wayne.....	November .	White.	2	1	Michigan	Michigan	Farmer.
Wayne.....	June.....	White.	c	c	Unknown....	Unknown....	Laborer.

* 1 still-born. b Still-born. c Unknown.

TABLE XX.—*Exhibiting for the State and Counties, the Number of Females aged 16 to 45 in Michigan, June 1, 1870, the same represented by Returns of Births in 1872, the Number of such Females to one Child, to one Illegitimate Child, and to one pair of Twins, born in Michigan, during the Year 1872; the Number of Males to 100 Females among Twins; and the Number of Illegitimate and of Still-born Children Born during the Year 1872.*

STATE AND COUNTIES.	Female Population aged 16 to 45, June 1, 1870. ^a	Female Population aged 16 to 45, June 1, 1870, Represented by Births in 1872.	Percent. of Total Births in 1872 to Females aged 16 to 45, June 1, 1870. ^b	No. of Females aged 16 to 45, June 1, 1870, to one Child Born in 1872. ^b	No. of Females aged 16 to 45, June 1, 1870, to one Illegitimate Child born in 1872. ^b	No. of Females aged 16 to 45, June 1, 1870, to one pair of Twins Born in 1872. ^b	Twin Children,—No. of Males to 100 Females.	No. of Illegitimate Chil- dren Born in 1872.	Number of Still-born Children in 1872.
State.....	254,261	251,449	11.18	8.98	1,268	785	92	199	801
Alcona.....	^c 157	144	22.23	4.50	144	144	-----	1	1
Allegan.....	6,681	6,471	10.29	9.73	2,157	481	114	8	8
Alpena.....	548	524	10.81	9.70	-----	524	^d	-----	---
Antrim.....	387	387	15.50	6.45	-----	•	•	-----	---
Barry.....	4,722	4,722	9.81	10.20	4,722	1,574	50	1	4
Bay.....	3,806	3,806	25.35	3.95	3,806	276	50	1	15
Benzle.....	452	452	16.59	6.08	452	452	^d	1	---
Berrien.....	7,591	7,591	8.83	11.33	8,796	848	100	2	7
Branch.....	5,941	5,941	8.60	11.63	2,971	849	250	2	8
Calhoun.....	8,377	8,377	7.65	18.07	1,675	1,675	100	5	7
Cass.....	4,415	4,252	7.97	12.54	2,126	709	140	2	2
Charlevoix....	818	277	21.66	4.62	-----	•	•	-----	3
Cheboygan....	402	402	13.41	5.43	-----	201	100	-----	1
Chippewa.....	330	330	28.03	4.34	110	•	•	3	---
Clare.....	87	20	95.00	1.05	-----	20	^f	-----	---
Clinton.....	4,860	4,860	10.60	9.44	4,800	324	86	1	5
Delta..... ^g	423	-----	-----	-----	-----	-----	-----	-----	---
Eaton.....	5,524	5,524	9.45	10.58	1,851	1,381	100	4	9

^a Law of Michigan limits age of marriage of females to not less than that of sixteen years.

^b Only population of counties and townships represented by births in 1872 is used in computing statements in this column.

^c Includes population of unorganized county of Osceola.

^d No males.

^e No twin births returned.

^f No females.

^g No returns.

TABLE XX.—CONTINUED.

COUNTIES.	Female Population aged 16 to 45, June 1, 1870. ^a	Female Population aged 16 to 45, June 1, 1870, Represented by Births in 1872.	Percent. of Total Births in 1872 to Females aged 16 to 45, June 1, 1870. ^b	No. of Females aged 16 to 45, June 1, 1870, to one Child Born in 1872. ^b	No. of Females aged 16 to 45, June 1, 1870, to one Illegitimate Child Born in 1872. ^b	No. of Females aged 16 to 45, June 1, 1870, to one pair of Twins Born in 1872. ^b	Twin Children.—No. of Males to 100 Females.	No. of Illegitimate Children Born in 1872.	Number of Still-born Children in 1872.
Emmet.....	247	217	20.65	4.84	62	c	c	4	----
Genesee.....	7,554	7,554	7.93	12.61	3,777	2,518	260	2	4
Gr. Traverse..	881	881	9.42	10.61	881	441	100	1	----
Gratiot.....	2,378	2,378	14.79	6.76	598	475	25	4	8
Hilledale.....	7,016	7,016	7.74	12.92	1,408	877	167	5	5
Houghton.....	2,514	2,094	22.11	4.52	2,094	698	50	1	7
Huron.....	1,598	1,598	20.21	4.93	796	797	100	2	5
Ingham.....	5,606	5,606	9.79	10.21	1,402	701	73	4	8
Ionia.....	6,087	6,087	10.22	9.79	1,015	1,015	100	6	12
Iosco..... ^d	640	562	12.10	8.26	562	562	100	1	1
Isabella.....	809	809	15.82	6.82	162	c	c	5	1
Jackson.....	8,025	8,025	8.56	11.68	4,018	669	100	2	----
Kalamazoo.....	7,804	7,804	8.54	11.71	1,826	1,826	83	4	15
Kalkaska.....	71	71	38.08	2.68	-----	86	e	-----	----
Kent.....	11,107	11,107	11.61	8.61	2,777	740	67	4	17
Keweenaw.....	727	561	16.04	0.23	281	c	c	2	3
Lake.....	108	108	22.22	4.50	-----	c	c	-----	----
Lapeer.....	4,456	4,456	9.29	10.76	2,223	891	43	2	3
Leelanaw.....	885	885	17.29	5.78	885	221	100	1	5
Lenawee.....	10,453	10,453	7.66	13.06	3,456	1,307	60	3	11
Livingston.....	4,094	4,094	9.28	10.77	-----	4,094	f	-----	2
Mackinac..... ^g	334	-----	-----	-----	-----	-----	-----	-----	----
Macomb.....	5,664	5,664	9.76	10.24	2,932	629	157	2	6
Manistee.....	1,251	1,122	21.89	4.68	561	c	c	2	2
Manitou.....	185	185	11.11	9.00	-----	c	c	-----	----
Marquette.....	2,695	2,695	21.08	4.74	1,343	855	100	2	9

^a Law of Michigan limits age of marriage of females to not less than that of sixteen years.

^b Only population of counties and townships represented by births in 1872 is used in computing statements in this column.

^c No twin births returned.

^d Includes population of unorganized county of Ogemaw.

^e No females.

^f No males.

^g No returns.

TABLE XX.—CONTINUED.

COUNTIES.	Female Population aged 16 to 45, June 1, 1870. ^a	Female Population aged 16 to 45, June 1, 1870, Represented by Births in 1872.	Percent. of Total Births in 1872 to Females aged 16 to 45, June 1, 1870. ^b	No. of Females aged 16 to 45, June 1, 1870, to one Child Born in 1872. ^b	No. of Females aged 16 to 45, June 1, 1870, to one Illegitimate Child Born in 1872. ^b	No. of Females aged 16 to 45, June 1, 1870, to one pair of Twins Born in 1872. ^b	Twin Children,—No. of Males to 100 Females.	No. of Illegitimate Children Born in 1872.	Number of Still-born Children in 1872.
Mason.....	633	633	22.66	4.41	.....	218	200	.....	1
Mecosta.....	1,223	1,223	13.98	7.15	1,223	408	20	1	....
Menominee....	319	319	9.09	11.00	.....	319	.....	.....	....
Midland.....	631	628	15.29	6.54	.....	c	c	.....	....
Missaukec....	20	20	50.00	2.00	.....	c	c	.....	1
Monroe.....	5,594	5,330	11.97	8.35	1,777	1,066	150	3	3
Montcalm....	2,390	2,675	12.15	8.28	1,388	446	71	2	3
Muskegon....	3,176	3,047	8.89	11.24	.....	1,524	38	.....	4
Newaygo.....	1,403	1,367	10.17	9.83	1,367	683	300	1	....
Oakland.....	9,158	9,158	5.95	16.80	4,579	1,526	9	2	9
Oceana.....	1,516	1,516	14.38	6.95	379	379	60	4	4
Ontonagon....	491	491	11.81	8.47	.....	491	d	.....	....
Osceola.....	408	408	25.93	3.85	408	c	c	1	1
Ottawa.....	5,123	5,123	15.21	6.57	1,709	366	133	3	12
Presque Isle..	56	56	46.43	2.15	.....	c	c	.....	....
Saginaw.....	8,208	8,208	14.91	6.71	2,052	634	113	4	10
Sanilac.....	2,690	2,690	16.17	6.18	448	224	167	6	1
Schoolcraft....	129	129	10.08	9.92	.....	c	c	.....	....
Shiawassee....	4,545	4,545	9.03	10.33	.....	505	100	.....	4
St. Clair.....	7,407	7,407	11.91	7.54	2,469	529	130	3	2
St. Joseph....	5,797	5,797	6.51	14.63	644	2,399	100	9	....
Tuscola.....	2,734	2,734	14.30	6.90	1,367	1,367	33	2	4
Van Buren....	6,306	6,306	8.69	11.51	1,577	526	60	4	9
Washtenaw....	9,221	9,221	7.35	18.60	2,905	1,537	33	4	3
Wayne.....	27,202	27,202	14.57	6.73	418	697	111	65	47
Wexford.....	144	103	20.39	4.90	.....	c	c	.....	....

^a Law of Michigan limits age of marriage of females to not less than that of sixteen years.

^b Only population of counties and townships represented by births in 1873 is used in computing statements in this column.

^c No twin births returned.

^d No females.

EXHIBIT 10.—*Counties and Townships in which it is Reported that there were no Births in 1872.*

COUNTIES.	TOWNSHIPS.	POPULATION JUNE 1, 1870.		
		Total.	Male.	Female.
Total .....	.....	1,251	774	477
Bay	Au Gres	255	193	63
Iosco	{ Grant	107	68	44
	{ Ogemaw County	12	9	3
Mason	Branch			
Mcnominee	{ Cedarville	196	148	48
	{ Ingallston	102	56	46
Missaukee	Reeder	130	76	54
Ontonagon	{ Algonquin	54	30	24
	{ Carp Lake	25	13	12
Sanilac	Washington	370	187	183

* Organized since census was taken.

† Population of St. Martin's Island in 1870.

TABLE XXI.—Exhibiting the Counties and Townships from which no Returns of Births in 1872 were received, the Number of Females Aged 16 to 45, and by Sex and by Color, the Number of Inhabitants June 1, 1870, in such Counties and Townships.

STATE AND COUNTIES.	TOWNSHIPS FROM WHICH NO RETURNS WERE RECEIVED.	POPULATION JUNE 1, 1870.				WHITE.			BLACK.			MULATTO.			INDIAN.		
		Total.	Males.	Females.	Females aged 16 to 45.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
State.....	.....	14,990	8,805	6,694	2,816	14,644	8,146	6,498	6	4	2	26	12	14	323	143	180
Alcona.....	Oscoda Co..... ^b	70	48	22	13	70	48	22	.....	.....	.....	.....	.....	.....	.....	.....	.....
Allegan.....	Heath..... ^a	1,000	562	438	210	1,000	562	438	.....	.....	.....	.....	.....	.....	.....	.....	.....
Alpena.....	Ossineke..... ^a	144	91	53	24	144	91	53	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cass.....	Mason..... ^b	809	419	390	168	809	419	390	.....	.....	.....	.....	.....	.....	.....	.....	.....
Charlevoix.....	Norwood..... ^a	182	91	91	41	182	91	91	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clare.....	Sheridan..... ^a	87	50	37	17	87	50	37	.....	.....	.....	.....	.....	.....	.....	.....	.....
Delta.....	All townships..... ^a	2,441	1,196	955	428	2,422	1,480	942	.....	.....	.....	.....	.....	.....	19	6	13
Houghton.....	Franklin..... ^a	2,164	1,105	1,059	490	2,145	1,097	1,048	.....	.....	.....	.....	.....	.....	19	8	11
Iosco.....	Oscoda..... ^a	476	287	189	78	476	287	189	.....	.....	.....	.....	.....	.....	.....	.....	.....
Keweenaw.....	{ Eagle Harbor..... ^a Grant..... ^a	779	481	347	140	778	481	347	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mackinac.....	All townships..... ^b	1,715	905	810	384	1,426	775	651	.....	.....	.....	28	11	19	266	119	147

	876	211	163	78	876	211	165
Manistee.....	{Filer..... ^a						
Stonoch.....	{Stonoch..... ^a	281	109	56	281	173	109
Midland.....	Lincoln..... ^b	332	181	58	823	181	141
Monroe.....	Ash..... ^b	1,449	755	264	1,449	755	694
Montcalm.....	Home..... ^a	173	101	25	173	101	73
	{Montcalm..... ^a	1,009	527	493	1,003	528	480
						6	4
						2	
Muskegon.....	Cedar Creek..... ^a	660	355	129	660	355	805
Newaygo.....	Beaver..... ^a	142	84	25	142	84	58
	{Bridgeton..... ^a	397	225	71	378	215	163
Oscoda.....	Cedar..... ^a	0					
Presque Isle.....	Presque Isle..... ^a	0					
	{Colfax..... ^b	172	94	41	169	98	76
Wexford.....	Henderson..... ^c	0					

County Clerk says no returns of births from Supervisor.

b No returns from County Clerk.

• Organized since census was taken.

It is very gratifying to notice that this table of delinquencies is much shorter than in the Report for 1871.

SEX OF CHILDREN.

A more complete discussion of this subject may be found in the Report for 1871. The Tables and Exhibits are continued as follows:

EXHIBIT N.—Births in Michigan during the year 1872, by Sex and Months equalized to 30.44 days each.

SEX.	Year 1872. *	MONTHS OF BIRTHS.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Total	27,982	1742	1996	2155	2286	2240	2258	2370	2766	2758	2384	2391	2536	27
Males	14,424	894	1038	1127	1205	1176	1174	1268	1405	1351	1259	1202	1259	11
Females	13,425	847	956	1024	1075	1059	1101	1103	1355	1364	1116	1174	1229	12
Unknown	83	1	2	4	6	5	8	4	6	6	9	15	10	5

* The number of births of each sex, and the total number, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers, in the several months, modified by addition and subtraction. The total number as equalized is 61 less than the total number returned.

EXHIBIT O.—Births in Michigan during the year 1872, by Sex and by Months, equalized to 30.44 days each, and by Months the excess of Males over Females. Unknown sex and unknown months excluded.

SEX.	Year 1872. *	MONTHS OF BIRTHS.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Both sexes.....	• 27,826	1741	1994	2151	2280	2235	2275	2366	2760	2745	2375	2376	2528
Males.....	14,413	894	1088	1127	1205	1176	1174	1263	1405	1381	1259	1202	1259
Females ...	13,418	847	956	1024	1075	1059	1101	1103	1355	1364	1116	1174	1269
Excess of Males over Females...	1,000	47	82	108	130	117	78	160	50	17	148	28	50
Males to 100 Fe- males.....	107	106	109	110	112	111	107	115	104	101	118	102	104

* The number of births of each sex, and the total number of both sexes, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers, in the several months, modified by addition and subtraction. This table excludes births in unknown month and of unknown sex,—106. These and the 61 lost in equalizing, added to the number shown in this table, make the number as returned by registration officers.

EXHIBIT P.—*Births in Michigan during the year 1872 by Sex and by Months, corrected for Omissions in Enumerating, equalized for Increase of Population during the year covered by the returns, and as thus corrected and equalized for the several months, equalized for months of 30.44 days each.*

SEX.	Year 1872.	YEAR 1872.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Both sexes.....	48,950	3860	3782	3895	3991	3775	3699	3718	4152	3964	3302	3155	3212
Males.....	24,475	1893	2122	2222	2287	2147	2058	2122	2261	2124	1647	1680	1712
Females.....	19,475	1467	1610	1673	1704	1628	1641	1591	1891	1840	1455	1475	1500

Exhibit P is a somewhat theoretical combination of data obtained from these statistics, for the purpose of enabling us to make more perfect comparisons by months. The facts upon which these computations are based have been previously stated. As will be seen in the heading, the births here tabulated are those that would have occurred if the population had been the same throughout the year as at its close, and would have been enumerated except for omissions because of lapse of time between the births and their enumeration. The months are made of uniform length. This exhibit probably furnishes the best opportunity for comparing the several months with reference to the total number of births, or the number and relative proportion of each sex.

Tables XXII. to XXVII., inclusive, are continued, because it is believed the plans upon which they are constructed are valuable. Their evidence is as yet unsatisfactory, however, for the reason that not the same proportion of births or deaths are returned in all the months. This is a fault in collection of the data; and it is hoped that it will some time be possible to have it remedied.

TABLE XXII.—*Exhibiting by Months the Relation between the Total Number of Conceptions during certain months of the years 1871-2, and the proportion of each Sex Conceived during the same time and Born during the year ending December 31, 1872.*

CONCEPTIONS FOR BIRTHS IN 1872. *					
Months of 1871 and 1872 of Conceptions for Births in 1872, in order by Number, the least Number first.		Total Number of Conceptions. ^b	Months of 1871 and 1872, in order by Number of Males to 100 Females, the greatest Number first.		
			No. of Males to 100 Females.		
Less than the Average No. of Conceptions.	April	1,741	More than the Av. proportion of Males.	October..... ^c 114.51	
	May	1,994		January, 1872..... ^c 112.81	
	June.....	2,151		July	112.09
	August.....	2,285		August.....	111.07
	September.....	2,275		June.....	110.06
	July.....	2,260		May	108.58
Average.....		2,319	Average..... 107.69		
More than the Av. No. of Conceptions.	October.....	2,366	Less than the Av. proportion of Males.	September..... ^c 106.63	
	January, 1872.....	2,375		April..... ^c 105.55	
	February, 1872.....	2,376		March, 1872.....	104.04
	March, 1872.....	2,528		November	108.69
	December.....	2,745		February, 1872.....	102.38
	November	2,760		December.....	101.24

* Equalized to months of 30.44 days each, and excluding unknown sex and unknown months.

^b For the purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

^c Exceptions to rule that *more* than the average proportion of males were conceived in months in which *less* than the average total number of conceptions occurred, and *vice versa*.

TABLE XXIII.—*Exhibiting by Months the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births Corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length.*

CONCEPTIONS FOR BIRTHS IN 1872. *

Months of 1871 and 1872 of Conceptions of Births in 1872, estimated from Births corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length. Months arranged in order by number, the least number first.		Number of Conceptions as corrected and equalized.	Months of 1871 and 1872 of Conceptions of Births in 1872, estimated from Births corrected as if enumerated in Months of Occurrence and equalized to Months of uniform length. Months arranged in order by number of males to 100 females,—greatest number first.		No. of Males to 100 Females. Births corrected and equalized.
Less than the Av. N. o. of Conceptions.	February, 1872.....	3,138	More than the Average proportion of Males.	July.....	184
	March, 1872.....	3,201		June.....	183
	April.....	3,225		October.....	133
	January, 1872.....	3,267		May.....	132
	Average.....	3,580		August.....	182
More than the Average Number of Conceptions.	May.....	3,598	Less than the Average proportion of Males.	April..... ^b	129
	September.....	3,609		January, 1872..... ^b	127
	October.....	3,636		Average.....	126
	August.....	3,673		September..... ^b	125
	June.....	3,768		November..... ^b	120
	July.....	3,869		December..... ^b	115
	December.....	3,905		February, 1872.....	114
	November.....	4,081		March, 1872.....	114

* See Note b to Table XXII., p. 110. (In last Report erroneously referred to as Table XX.)

^b Exceptions to rule that *more* than the average proportion of males were conceived in months in which *more* than the average number of conceptions occurred, and *less* than the average proportion of males in months in which *less* than the average number of conceptions occurred.

TABLE XXIV.—*Exhibiting by Months the Relation between the total number of Conceptions, and the total number of Deaths which occurred in the Months of the Years 1871 and 1872 in which were Conceived the Children born during the year ending December 31, 1872.*

DEATHS.			CONCEPTIONS. ^b		
Months ^a of 1871 and 1872 of Conceptions of Births in 1872, arranged in order by total number of Deaths, the least number first.		Number of Deaths as Equalized.	Months ^a of 1871 and 1872 of Conceptions of Births in 1872, in order by Number, the least Number first.		No. of Conceptions as Equalized.
Less than the Average Number of Deaths.	January, 1872.....	591	Less than the Average Number of Conceptions.	April..... ^c	1,741
	June.....	685		May..... ^c	1,994
	April.....	732		June..... ^c	2,151
	May.....	736		August.....	2,235
	July.....	774		September.....	2,275
	February, 1872.....	794		July..... ^c	2,290
	November.....	810		Average.....	2,319
Average.....		838	More than the Average Number of Conceptions.	October..... ^c	2,366
More than the Average No. of Deaths.	October.....	916		January, 1872.....	2,375
	March, 1872.....	924		February, 1872.....	2,376
	December.....	1,010		March, 1872..... ^c	2,528
	August.....	1,068		December..... ^c	2,745
	September.....	1,070		November.....	2,760

^a Equalized to months of 30.44 days each, excluding unknown months.

^b See note ^b to Table XXII., p. 110. (In last Report erroneously referred to as Table XX.)

^c Exceptions to proposition that there were *more* than an average number of conceptions in months in which *less* than an average number of deaths occurred, and *less* than an average number in months in which *more* than an average number of deaths occurred.

TABLE XXV.—*Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths; Deaths and Births from which Conceptions are estimated being corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length.*

DEATHS.			CONCEPTIONS. *		
Months of 1871 and 1872 of Conceptions of Births in 1872, arranged in order by number of Deaths, the least number first. Deaths corrected as if enumerated in Months of Occurrence, and equalized to months of uniform length.		No. of Deaths as Corrected and Equalized.	Months of 1871 and 1872 of Conceptions of Births in 1872, estimated from Births corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length. Months arranged in order by number, the least number first.		No. of Conceptions as corrected and equalized.
Less than the Average Number of Deaths.	June.....	1,078	Less than the Av. No. of Conceptions.	February, 1872.....	3,133
	November.....	1,118		March, 1872.....	3,301
	January, 1872.....	1,149		April..... ^b	3,225
	July.....	1,258		January, 1872..... ^b	3,267
	May.....	1,289		Average.....	3,580
	October.....	1,317	More than the Average Number of Conceptions.	May.....	3,533
	April.....	1,326		September..... ^b	3,609
	December.....	1,327		October.....	3,636
	Average.....	1,350		August..... ^b	3,673
More than the Average No. of Deaths.	February, 1872.....	1,496		June.....	3,763
	September.....	1,606		July.....	3,869
	August.....	1,661		December.....	3,903
	March, 1872.....	1,687		November.....	4,031

* See note ^b to Table XXII., p. 110. (In last Report erroneously referred to as Table XX.)

^b Exceptions to proposition that there were *more* than an average number of conceptions in months in which *less* than an average number of deaths occurred, and *less* than an average number of conceptions in months in which *more* than an average number of deaths occurred.

TABLE XXVI.—*Exhibiting by Months the Relation between the number of Deaths and the proportion of each Sex Conceived during the same Months of the years 1871 and 1872; Births and Deaths from which Conceptions are estimated being corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.*

DEATHS.			CONCEPTIONS. ^a		
Months of 1871 and 1872 of Conceptions of Births in 1872, arranged in order by Number of Deaths, the least Number first. Deaths corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length.		No. of Deaths as Corrected and Equalized.	Months of 1871 and 1872 of Conceptions of Births in 1872, estimated from Births corrected as if enumerated in Months of Occurrence, and Equalized to Months of uniform length. Months arranged in order by Number of Males to 100 Females, greatest Number first.		Number of Males to 100 Females. Births Corrected and Equalized.
Less than the Average Number of Deaths.	June.....	1,078	More than the Average proportion of Males.	July.....	124
	November.....	1,118		June.....	123
	January, 1872.....	1,149		October.....	123
	July.....	1,258		May.....	123
	May.....	1,289		August..... ^b	123
	October.....	1,317		April.....	129
	April.....	1,326		January, 1872.....	127
	December.....	1,327		Average.....	126
Average.....		1,359	Less than the Average proportion of Males.	September.....	125
More than the Av. No. of Deaths.	February, 1872.....	1,496		November..... ^b	129
	September.....	1,606		December..... ^b	115
	August.....	1,661		February, 1872.....	114
	March, 1872.....	1,687		March, 1872.....	114

^a See note ^b to Table XXII., p. 110. (In last Report erroneously referred to as Table XX.)

^b Exceptions to proposition that more than an average proportion of males were conceived in months in which less than an average number of deaths occurred, and less than an average proportion of males in months in which more than an average number of deaths occurred.

Tables XXII. to XXVII., inclusive, will be best understood and studied by carefully noticing the foot-note at the bottom of each, stating a proposition, and indicating the exceptions thereto.

TABLE XXVII.—*Exhibiting, by Months, the Relation between the Total Number of Deaths, and the proportion of each Sex Conceived during the same Months of the Years 1871 and 1872, and Born during the Year ending December 31, 1872.*

DEATHS.			CONCEPTIONS. ^b		
Months ^a of 1871 and 1872 of Conceptions of Births in 1872, arranged in order by Total Number of Deaths, the least Number first.		Number of Deaths as Equalized.	Months ^a of 1871 and 1872 in order by Number of Males to 100 Females, the greatest Number first.		No. of Males to 100 Females.
Less than the Average Number of Deaths.	January, 1872.....	591	More than the Average Proportion of Males.	October..... ^c	114.51
	June.....	635		January, 1872.....	112.81
	April.....	789		July.....	112.09
	May.....	786		August..... ^c	111.07
	July.....	774		June.....	110.06
	February, 1872.....	794		May.....	108.53
	November.....	810		Average.....	107.69
Average.....		888	Less than the Average Proportion of Males.	September.....	106.68
More than the Average No. of Deaths.	October.....	916		April..... ^c	105.55
	March, 1872.....	924		March, 1872.....	104.04
	December.....	1,010		November..... ^c	108.69
	August.....	1,063		February, 1872..... ^c	102.33
	September.....	1,070		December.....	101.34

^a Equalized to months of 30.44 days each, excluding unknown months.

^b See note ^b to Table XXII., p. 110. (In last Report erroneously referred to as Table XX.)

^c Exceptions to proposition that *more* than an average proportion of males were conceived in months in which *less* than an average number of deaths occurred, and *less* than an average proportion of males in months in which *more* than an average number of deaths occurred.

Table XXVIII. is a comparatively new table, and is submitted without much comment. The material has not been grouped in this way for a sufficiently long period to warrant very strong conclusions therefrom. It is believed that it will eventually yield useful evidence. It may be compared with Table XXVIII. and with Exhibit Q in last Report, which exhibit the same grouping for 1871 and 1870.

TABLE XXVIII.—*Exhibiting for the Total Births, for the Twins, Illegitimate, and Still-born Children Born in Michigan during the year 1872, the Number of Boys to 100 Girls among such Children, distinguishing by Parent-Nativities, and thus exhibiting the influence of Parent-Nativity upon Sex of Children.*

NATIVITY OF PARENTS.	BIRTHS, 1872. ^a		BOYS TO 100 GIRLS.			
	Males.	Fem'cs.	Total ^a Births.	Twin Child'n.	Illegitimate.	Still-born.
All Nativities.....	14,457	13,458	107.46	91.60	95.05	122.23
Both Parents Native.....	6,635	6,245	106.24	77.78	.....	103.39
Both Parents Foreign.....	5,018	4,674	107.36	101.52	.....	140.54
Foreign Father, Mother Native..	1,353	1,241	109.02	125.00	.....	50.00
Foreign Mother, Father Native..	717	640	112.08	200.00	.....	160.00
One or Both Unknown.....	734	658	112.40	50.00	.....	225.00
Mothers { Native.....	8,060	7,551	106.74	84.62	98.04	97.06
Mothers { Foreign.....	5,768	5,369	107.48	106.90	71.05	142.86
Mothers { Unknown.....	629	538	118.01	41.18	158.38	242.86
Fathers { Native.....	7,562	7,063	107.06	82.89	190.00	110.61
Fathers { Foreign.....	6,598	6,095	108.25	102.47	66.67	181.91
Fathers { Unknown.....	297	295	100.63	75.00	87.84	200.00
One or Both Native.....	8,937	8,369	107.38	88.68	.....	104.00
One or Both Foreign.....	7,348	6,790	108.22	106.96	.....	134.63
Both Unknown.....	192	175	109.71	60.00	.....	223.32
Same Country.....	^b 11,658	^b 10,919	106.72	89.00	.....	120.65
Different Country.....	^c 2,070	^c 1,881	110.05	126.09	.....	82.35
Same American or Foreign State.....	.....	.....	.....	85.73	.....	120.00
Different American or For'n State.....	.....	.....	.....	94.87	.....	109.63

^a Excluding unknown sex.

^b Includes "Native" and "Foreign."

^c Includes "Foreign Father and Native Mother" and "Foreign Mother and Native Father."

MARRIAGES.

The number of marriages returned as having been solemnized in Michigan during the year 1872 was 9,882. It should be borne in mind that marriages are sometimes returned during quite a length of time after the expiration of the time allowed by law. Some details of this may be seen in Table XII. The above statement includes the number returned previous to May 1, 1874. The number may be slightly increased by subsequent returns, but probably not enough to make it equal the number returned for 1871. By Table I. it will be seen that there appears to have been a certain periodicity in the marriage rate, exhibiting a greater number every alternate year since these Reports have been made.

An idea of the frequency of the ceremony may be gained from the usual statement of averages, which, for the year 1872, are as follows:

Average number per quarter.....	2,470.50
Average number per month.....	823.50
Average number per week.....	190.04
Average number per day.....	27.00

On an average, there is rather more than one marriage in this State to every hour of the day.

In Table I. may be seen the actual number returned as having been solemnized in each quarter of the year for each year since 1867. Corrections have been made up to May 1, 1874. It will be seen that the greatest numbers occur in the last

quarter in every year. The next greatest numbers are usually found in the third quarter, although in 1870 and 1871 the numbers in the first quarter slightly exceeded those in the third.

By comparing Table I. with Exhibit A, it may be seen that for each of the years quite a large number of marriages have been recorded and returned since the first return and publication of the numbers in the several years. Comparing Table I. in this Report with Table I. in the preceding Report, it appears that even some marriages solemnized in 1868 have been recorded and returned since the last Report.

TABLE I.—*Marriages by Quarters of the Year, showing Number and Per Cent. of Total for the Years 1868, 1869, 1870, 1871, and 1872, Corrected up to May 1, 1874.*

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
Totals.....	8,645	100.00	10,296	100.00	9,707	100.00	10,453	100.00	9,882	100.00
March.....	1,525	17.67	2,298	22.32	2,498	25.63	2,504	23.94	2,326	23.54
June.....	1,813	21.08	2,256	21.91	2,147	22.12	2,278	21.73	2,281	23.08
September.....	2,158	24.96	2,448	23.73	2,171	22.36	2,455	23.76	2,471	25.01
December.....	2,133	24.67	2,281	22.17	2,878	29.65	2,191	20.84	2,797	28.30
Unknown.....	8	.09	18	.17	18	.19	15	.14	7	.07
Average.....	2,161	25.00	2,574	25.00	2,427	25.00	2,615	25.00	2,471	25.00

* The number in unknown quarter of year included.

EXHIBIT A.—Marriages by Quarters of the Year, showing Number and Per Cent. of Total, for the Years 1868, 1869, 1870, 1871, and 1872, as originally returned and published in Reports.

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
Totals	6,866	100.00	8,459	100.00	9,160	100.00	10,161	100.00	9,882	100.00
March.....	1,877	20.05	2,167	25.61	2,429	26.51	2,475	24.80	2,923	28.54
June.....	1,667	24.18	2,097	24.79	2,081	22.71	2,250	22.09	2,281	28.08
September.....	1,886	27.46	2,154	25.46	2,078	22.68	2,428	23.79	2,471	25.01
December.....	1,934	28.16	2,024	28.92	2,560	27.94	3,018	29.64	2,797	28.80
Unknown.....	12	.17	17	.20	17	.18	15	.14	7	.07
Average.....*	1,716	25.00	2,114	25.00	2,290	25.00	2,545	25.00	2,471	25.00

* Includes those in unknown quarter of year.

By comparing the columns headed "Per Cent. of Total" in Table I. and Exhibit A, it will be seen that by the subsequent return of marriages the last quarter in each year has been increased in a greater proportion than the others, and that, even as first returned, the greatest numbers are reported for the last quarter of the year.

TABLE II.—Marriages by Months arranged in Order by Number, for the Years 1868, 1869, 1870, 1871, and 1872, Corrected up to May 1, 1874.

Order	1868.			1869.			1870.			1871.			1872.		
	Months.	No.	Per Cent. of Total.	Months.	No.	Per Cent. of Total.	Months.	No.	Per Cent. of Total.	Months.	No.	Per Cent. of Total.	Months.	No.	Per Cent. of Total.
	Total.....	8,645	100.00	Total....	10,296	100.00	Total....	9,707	100.00	Total....	10,488	100.00	Total....	9,892	100.00
1	Dec.....	1,188	13.16	Dec.....	1,131	11.47	Dec.....	1,005	10.35	Dec.....	1,160	11.09	Dec.....	960	9.71
2	Nov.....	1,028	11.89	Nov.....	1,064	10.33	Nov.....	961	9.90	Oct.....	1,018	9.69	Oct.....	929	9.40
3	Oct.....	967	11.19	Oct.....	1,086	10.06	Oct.....	912	9.39	Nov.....	1,008	9.64	July.....	929	9.40
4	Sept.....	848	9.75	Sept.....	892	8.67	January.	846	8.72	January.	919	8.79	Nov.....	908	9.19
5	July.....	718	8.31	January.	861	8.36	March....	883	8.57	July.....	902	8.62	April....	865	8.75
6	January..	691	7.88	July.....	881	8.07	Feb'yary.	815	8.40	April....	878	8.40	March....	829	8.39
7	May.....	666	7.70	May.....	916	7.98	July.....	807	8.31	Sept....	888	8.30	Sept....	809	8.19
8	April....	614	7.10	April....	763	7.41	May.....	788	8.07	March....	809	7.74	January.	905	8.15
9	August...	507	6.21	March....	753	7.31	April....	756	7.79	Feb'yary.	776	7.42	August..	738	7.42
10	June.....	588	6.22	August..	719	6.95	Sept....	749	7.73	May.....	764	7.21	May.....	729	7.38
11	Feb'yary..	463	5.34	Feb'yary.	684	6.61	August..	615	6.38	August.	725	6.98	Feb'yary.	692	7.00
12	March....	385	4.45	June.....	677	6.58	June.....	608	6.26	June.....	641	6.13	June.....	697	6.95
	Unknown	8	.09	Unk'n... ^a	18	.17	Unk'n... ^a	18	.19	Unk'n... ^a	15	.14	Unk'n... ^a	7	.07
	Average. ^a	730.42	8.33	Average. ^a	853	8.33	Average. ^a	808.92	8.33	Average. ^a	871.50	8.33	Average. ^a	822.50	8.33

^a Includes those for unknown months.

By Table II. it will be seen that a greater number of marriages occur in December than in any other month of the year. This is true for every year since reports have been compiled. Although in correcting this table up to May 1, 1874, the numbers slightly exceed those in the same table in last report, the order of the months remains unchanged, so far as relates to the years previous to 1872. In 1872 the number of marriages solemnized in June, July, and August was greater than heretofore returned, while the numbers in January and February appear to have been somewhat less than usual. As mentioned in previous Reports, the marriage-rate seems to be influenced by physiological causes connected with the seasons of the year, by social customs and events, by business prosperity or depression, and by sickness and deaths, or general health among the people. Some of these influences may be studied in Diagram No. 1, page 7, in connection with the comments following it on page 9 of this Report; also in the table of deaths by months and Diagram No. 3 (for pages see index), by comparison with Table II., marriages, and Diagram No. 2, in this Report. Perhaps the variations in the marriage-rate in 1872 can be explained by the influence of the death-rate, which may have postponed marriages which otherwise would have occurred earlier in the year. But the death-rate was noticeably large in April, 1872, and the marriages do not seem to have been decreased, but rather more than usual. It may be well to notice this, for the reason that it appeared by evidence in the Report for 1871 that the birth-rate is increased by the prevalence of cholera, and the larger death-rate in April, 1872, was due in part to cerebro-spinal meningitis. It is an interesting question whether certain diseases do not tend to increase rather than decrease the marriage-rate. It is easy to imagine how it is possible for this to occur through unusual excitation of the nervous system; but the question as to the truth of the proposition can only be answered by faithful and continued study of vital statistics.

SIXTH REGISTRATION REPORT.

EXHIBIT B.—*Marriages in Michigan during the Years 1868, 1869, 1870, 1871, and 1872, corrected up to May 1, 1874, and Equalized to Uniform Months of 30.44 days each.*

	Y'rs.	Totals.	MONTHS.												Un- kn'wn
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Marriages as returned.....		8,645	681	463	885	614	666	598	718	597	813	967	1,028	1,188	8
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....		-.56 + 1.41		-.56	+.14	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....		-12	+23	-7	+9	-12	+3	-13	-11	+19	-17	+15	-21	.....
Marriages equalized to months of uniform length.....		8,619	669	485	878	623	654	546	705	586	855	950	1,048	1,117	8
Marriages as returned.....		10,296	861	654	753	703	816	677	831	719	893	1,086	1,064	1,181	13
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....		-.56	+2.44	-.56	+.41	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....		-10	+60	-14	+11	-15	+10	-15	-18	+13	-19	+16	-21	.....
Marriages equalized to months of uniform length.....		10,293	845	744	789	774	801	687	816	700	906	1,017	1,080	1,160	13

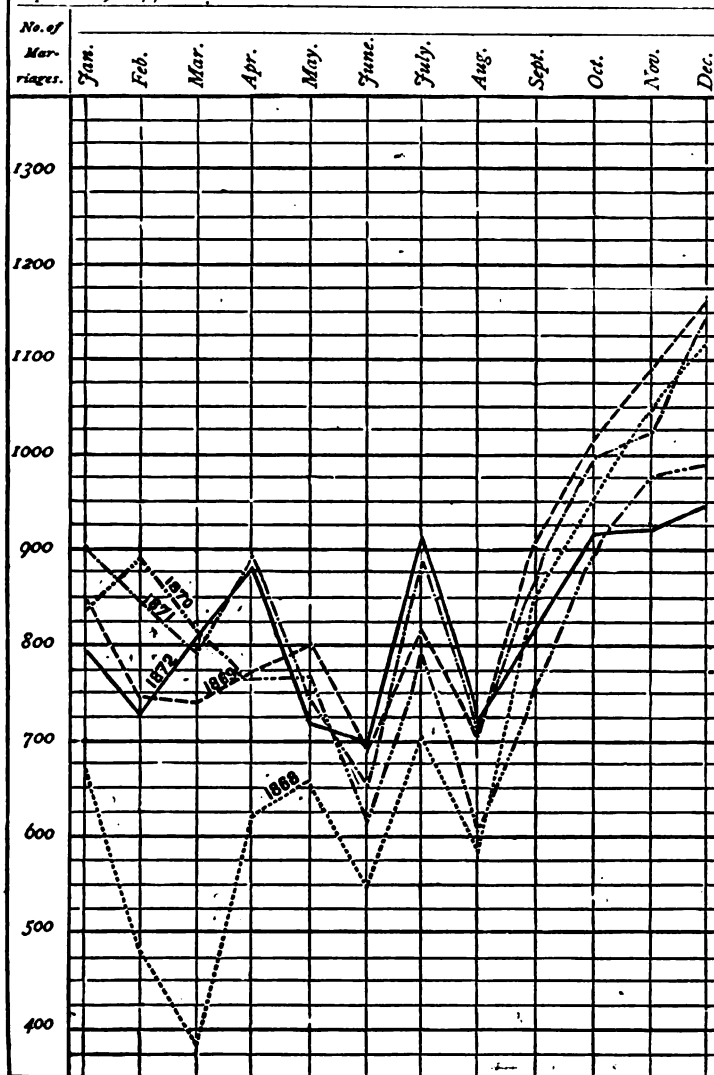
Marrriages as returned.....	9,707	846	815	881	754	788	906	807	615	769	913	901	1,005	18
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....	.....	-.56	+3.44	-.56	+4.41	-.56	+4.41	-.56	-.56	+4.44	-.56	+4.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....	+12	-15	+71	-15	+11	-14	+9	-15	-11	+11	-16	+14	-18	.....
Marrriages equalized to months of uniform length.....	9,719	831	886	817	707	709	617	792	604	760	896	975	987	18
Marrriages as returned.....	10,458	919	770	809	879	754	641	902	725	858	1,013	1,003	1,100	15
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....	.....	-.56	+2.44	-.56	+44	-.56	+4.44	-.56	-.56	+4.44	-.56	+4.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....	+4	-17	+68	-15	+13	-14	+9	-16	-18	+13	-18	+15	-31	.....
Marrriages equalized to months of uniform length.....	10,462	902	844	794	891	740	650	886	712	871	995	1,028	1,189	15
Marrriages as returned.....	9,882	805	692	829	865	729	687	929	788	809	929	908	960	7
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....	.....	-.56	+1.44	-.56	+4.44	-.56	+4.44	-.56	-.56	+4.44	-.56	+4.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....	-25	-15	+34	-15	+13	-18	+10	-17	-18	+13	-17	+13	-17	.....
Marrriages equalized to months of uniform length.....	9,857	790	736	814	873	716	697	912	759	821	912	931	948	7

The last lines opposite each year in this Exhibit are graphically represented in Diagram No. 2, page 125.

Table II. exhibits the marriages by months as returned. In order to appreciate the real tendency to marriage in each month, it is necessary to make the months of a uniform length, or in some way make them more exactly comparable. This has been done in Exhibit B; and the results of this equalization are graphically represented in Diagram No. 2. Besides the uniformity by seasons in different years, and the slight variations therefrom in particular years, there is one tolerably uniform characteristic of every year that seems easily accounted for. It is the increased number of marriages in July, which it seems reasonable to believe are determined by the fact that the "Fourth of July" is quite generally observed as a holiday in this State. It will be seen by the Diagram that there is always a decreased number in June and in August; and this is probably explained by the same event, and is because those who might otherwise marry in June or in August, prefer to fix upon the time of the generally observed, though not legally established, national holiday.

DIAGRAM NO. 2.

Marriages in Michigan during the years 1868, 1869, 1870, 1871 and 1872 by months equalized to uniform length of 30.44 days each. From returns corrected up to May 1874.



Designed by Henry B. Baker.

TABLE III.—*Distinguishing, by Counties and by Months, the Number of Marriages Returned as having been Solemnized during the Year ending December 31, 1872.*

STATE AND COUNTIES.	Year 1872.	MONTHS.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State.....	9,882	805	693	829	865	729	687	929	788	809	929	908	960	7
Alcona.....	8	1	1	1			1			8		1		
Allegan.....	251	81	18	26	23	13	14	16	22	14	22	22	30	
Alpena.....	54		2	9	1	9	4	4	8	12	7	3		
Antrim.....	90	2	8	8		1		2	4	1	2	2		
Barry.....	156	15	12	17	28	7	6	11	8	4	15	18	20	
Bay.....	175	17	18	14	9	18	11	17	12	11	15	16	22	
Benzie.....	14	2		1			1		3	2	2	3		
Berrien.....	381	88	23	84	41	41	81	87	88	25	29	26	18	
Branch.....	241	25	25	24	16	12	14	14	19	25	10	28	29	
Calhoun.....	347	41	28	23	24	24	21	22	21	20	35	40	39	
Cass.....	204	15	5	19	18	18	18	21	18	12	24	19	27	
Charlevoix.....	17	1	5		2	1	2	2		1	8			
Cheboygan.....	7										5	2		
Chippewa.....	7	1		1	2		1		1		1			
Clare.....	8		1		1		2	1	1	1		1		
Clinton.....	151	16	11	12	10	10	16	9	16	14	16	14	7	
Delta..... ^a	21	1	2	3	4	2	6	2	1					
Eaton.....	289	22	17	11	21	9	17	21	17	12	32	21	38	
Emmet.....	9	4	2		1					1		1		
Genesee.....	286	19	21	20	19	24	19	29	16	28	37	22	37	
Gr. Traverse....	32	1	3	2	2	3	2	4	2	3	3	2	5	
Gratiot.....	80	9	6	10	7	2	5	11	7	6	8	6	3	
Hillsdale.....	355	26	32	36	26	26	23	27	28	32	29	35	35	
Houghton.....	106	1	4	5	14	11	11	6	11	18	11	10	7	
Huron.....	87	5	3	9	4	9	6	10	4	5	5	17	10	
Ingham.....	217	15	20	18	15	15	12	16	14	16	19	25	32	

^a The marriages in Delta County for the first part of 1872 were returned with those for 1871. No returns to this Department for 1872.

TABLE III.—CONTINUED.

COUNTIES.	Year 1872.	MONTHS.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ionia.....	259	19	17	19	30	14	15	17	17	18	30	26	37	---
Iosco	44	---	1	3	3	2	4	6	4	6	5	4	6	---
Isabella.....	38	2	3	5	4	3	5	7	1	4	1	1	2	---
Jackson.....	304	24	26	33	26	17	29	32	22	12	21	36	26	---
Kalamazoo.....	341	36	14	26	31	20	24	37	18	32	26	42	35	---
Kalkaska.....	5	---	---	---	---	---	1	---	---	1	---	2	1	---
Kent.....	544	49	53	36	43	56	28	51	36	47	48	44	53	---
Keweenaw.....	1	---	---	---	---	---	---	---	---	---	---	---	1	---
Lake.....	8	1	---	1	1	---	2	2	---	1	---	---	---	---
Lapeer.....	153	9	6	16	21	17	11	17	5	14	11	15	16	---
Leelanaw.....	29	6	---	2	3	5	2	---	2	6	---	3	---	---
Lenawee.....	463	45	25	47	38	51	26	43	26	35	50	33	53	1
Livingston.....	160	14	14	13	9	11	3	15	9	7	19	21	15	---
Mackinac..... ^a	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Macomb.....	152	14	11	10	11	15	4	16	8	9	13	21	20	---
Manistee.....	51	---	---	---	3	1	3	6	9	3	2	9	10	---
Manitou..... ^b	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marquette.....	190	17	3	5	16	11	14	31	17	18	23	13	13	---
Mason.....	29	3	2	1	3	3	3	3	5	3	2	1	---	---
Mecosta.....	73	3	5	6	3	11	5	12	6	3	6	1	5	---
Menominee.....	16	---	1	2	---	3	6	1	---	1	---	2	---	---
Midland.....	30	1	3	6	5	1	---	3	1	3	1	3	3	---
Missaukee.....	4	---	---	---	2	---	---	---	---	1	---	---	1	---
Monroe.....	204	19	23	12	17	14	3	15	17	24	23	16	15	1
Montcalm.....	137	12	9	14	13	10	11	16	12	3	13	3	12	---
Muskegon.....	137	7	14	15	16	13	11	23	9	10	11	16	12	---
Newaygo.....	69	4	9	3	4	4	2	7	9	5	6	3	3	---
Oakland.....	266	19	25	29	24	16	14	30	15	21	30	23	13	2
Oceana.....	43	4	3	4	4	3	5	1	3	3	4	3	6	---

^a No returns to this Department.^b No marriages on record in County Clerk's office.

TABLE III.—CONTINUED.

COUNTIES.	Year 1872.	MONTHS.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ontonagon.....	12	---	1	---	---	---	2	---	2	2	---	1	4	---
Osceola.....	46	4	1	1	3	4	6	6	2	6	1	4	8	---
Ottawa.....	187	18	15	20	16	22	20	19	28	17	8	11	8	---
Presque Isle ..	4	---	---	---	---	1	---	2	1	---	---	---	---	---
Saginaw.....	449	25	28	27	55	48	84	35	37	42	45	46	84	---
Sanilac.....	102	9	4	14	18	11	7	12	8	6	8	4	6	---
Schoolcraft.....	5	---	---	---	---	---	---	---	3	---	---	1	1	---
Shiawassee ..	106	7	18	15	4	7	6	12	7	18	11	4	2	---
St. Clair.....	325	25	16	43	42	15	19	28	24	24	38	19	32	---
St. Joseph ..	265	27	24	28	18	16	20	19	15	20	24	20	42	---
Tuscola.....	129	9	9	15	12	4	9	11	6	15	14	8	17	---
Van Buren.....	282	34	25	28	18	11	16	24	11	16	18	15	26	---
Washtenaw..	270	31	18	26	34	18	22	21	26	19	26	19	10	---
Wayne.....	462	8	4	11	27	27	35	65	61	76	78	61	19	---
Wexford.....	2	1	---	1	---	1	1	---	---	1	2	1	1	---

MARRIAGES, BY RACE AND COLOR.

Table IV. exhibits the relation of the marriages to the total inhabitants, distinguishing between the white inhabitants, Indians, and persons of African descent. Stated in this way, there does not seem to be much difference. A closer study may be entered on hereafter, examining the relation to inhabitants at ages between fifteen and forty-five years. For the year 1872 quite a large number, 312 marriages, were returned without a proper statement of the color.

TABLE IV.—*Exhibiting by Color and by Sex, the Population June 1, 1870, the Number of Marriages, the Number and Per Cent. of Total Number of Persons Married in Michigan during the Year 1872, and the Per Cent. of Persons Married in 1872 to Population June 1, 1870.*

COLOR.	SEX.	Population June 1, 1870, Represented by Marriages in 1872.	Number of Marriages.	PERSONS MARRIED.		Per Cent. of Persons Married in 1872 to Pop. June 1, 1870.	No. of Persons who Married those of Another Color.
				Number.	Per Cent. of Total No.		
All Colors.....	Total	1,191,676	9,892	19,764	100.00	1.673	13
	Males	616,838	.....	9,882	50.00	1.602	9
	Females	564,818	.....	9,882	50.00	1.750	9
White.....	Total	1,165,484	9,446	18,898	95.62	1.622	6
	Males	608,418	.....	9,452	47.82	1.554	4
	Females	557,021	.....	9,446	47.79	1.696	2
Black.....	Total	5,521	74	145	.73	2.626	4
	Males	3,047	.....	73	.37	2.398	2
	Females	2,474	.....	73	.36	2.910	2
Mulatto.....	Total	6,200	12	26	.13	.419	3
	Males	3,129	.....	13	.07	.415	2
	Females	3,071	.....	13	.07	.423	1
Indian.....	Total	4,521	88	75	.38	1.659	5
	Males	2,269	.....	36	.19	1.587	1
	Females	2,252	.....	39	.20	1.732	4
Unknown Colors	Total .....	.....	312	620	3.14	.....	.....
	Males .....	.....	.....	308	1.56	.....	.....
	Females .....	.....	.....	312	1.58	.....	.....
Black and Mulatto.....	Total	11,721	56	171	.87	1.459	7
	Males	6,176	.....	86	.44	1.392	4
	Females	5,545	.....	85	.43	1.533	3

TABLE V.—*Exhibiting, for the State and Counties, the Number of Marriages Returned as having been Solemnized in Michigan during the Year 1872, the Number of White Persons, and, by Color, the Number of Marriages where one or both Parties were other than White.*

STATE AND COUNTIES.	Marriages, 1872.	COLOR.				
		White.	Black.	Mulatto.	Indian.	Unknown.
State.....	9,882	a 9,446	b 74	c 12	d 88	e 812
Alcona.....	8	8	—	—	—	—
Allegan.....	251	241	8	—	7	—
Alpena.....	54	54	—	—	—	—
Antrim.....	20	20	—	—	—	—
Barry.....	156	155	1	—	—	—
Bay.....	175	169	5	2	4	—
Benzie.....	14	14	—	—	—	—
Berrien.....	881	860	h 4	1	—	116
Branch.....	241	235	5	8	—	18
Calhoun.....	847	848	k 1	12	1	—
Cass.....	204	189	5	8	m 5	2
Charlevoix.....	17	15	—	—	2	—
Cheboygan.....	7	6	—	—	1	—
Chippewa.....	7	7	—	—	—	—
Clare.....	8	8	—	—	—	—
Clinton.....	151	151	—	—	—	—
Delta.....	21	21	—	—	—	—
Eaton.....	280	288	5	1	—	—
Emmet.....	9	—	—	—	8	1
Genesee.....	286	278	2	—	—	6
Grand Traverse.....	82	82	—	—	—	—

a Includes 1 female "I. & W."; 1 female "R." b Includes 46 couples "A"; 7 couples "African"; 1 female "A. & I."; 1 male Mulatto; 1 female Mulatto; and 4 couples "Colored." c 1 couple—male "Dark," female "Light"; 2 couples "Dark"; 4 couples "A W A W"; 1 couple "Light"; 1 male "W A"; 1 female "W." d Includes 3 couples "Red"; 2 males White; 1 female White. e Includes 4 males White. f 3 couples "Red." g "A." h 1 couple "A." i 1 male White. j 2 males White. k "African." l "Dark." m 4 couples "A W A W"; 1 male "W A"; female "W." n The marriages in Delta County for the first part of 1872 were returned with those for 1871. No returns to this Department for 1873.

TABLE V.—CONTINUED.

COUNTIES.	Marriages, 1872.	COLOR.				
		White.	Black.	Mulatto.	Indian.	Unknown.
Gratiot.....	80	79	a 1	.....	.....	.....
Hillsdale.....	355	354	a 1	.....	.....	.....
Houghton.....	106	104	.....	.....	b 2	.....
Huron.....	87	87	.....	.....	.....	.....
Ingham.....	217	216	a 1	.....	.....	.....
Ionia.....	259	257	1	1	.....	.....
Iosco.....	44	44	.....	.....	.....	.....
Isabella.....	88	81	.....	.....	c 7	.....
Jackson.....	304	299	d 5	.....	.....	.....
Kalamazoo.....	341	333	e 7	.....	.....	1
Kalkaska.....	5	5	.....	.....	.....	.....
Kent.....	544	544	.....	.....	.....	.....
Keweenaw.....	1	1	.....	.....	.....	.....
Lake.....	8	8	.....	.....	.....	.....
Lapeer.....	158	157	d 1	.....	.....	.....
Leelanaw.....	29	26	.....	.....	3	.....
Leauwee.....	488	465	f 3	.....	.....	e 13
Livingston.....	160	160	.....	.....	.....	.....
Mackinac.....	5	.....	.....	.....	.....	.....
Macomb.....	152	152	.....	.....	.....	.....
Manistee.....	51	51	.....	.....	.....	.....
Manitou.....	b	.....	.....	.....	.....	.....
Marquette.....	190	190	.....	.....	.....	.....
Mason.....	29	29	.....	.....	.....	.....
Mecosta.....	76	75	d 1	.....	.....	.....
Monominee.....	16	14	.....	.....	1	1
Midland.....	30	30	.....	.....	.....	.....
Missaukee.....	4	4	.....	.....	.....	.....
Monroe.....	204	204	.....	.....	.....	.....
Montcalm.....	187	187	.....	.....	.....	.....

a "Colored." b 1 female White. c 1 male White. d "A." e 4 couples "A"; 1 male, Mulatto. f 3 couples "A"; 1 couple "African." g No returns to this Department. h No marriages on record in county clerk's office. i 1 female "I & W."

TABLE V.—CONTINUED.

COUNTIES.	Marriages, 1872.	COLOR.				
		White.	Black.	Mulatto.	Indian.	Unknown.
Muskegon.....	157	154	a 1	b 1	.....	1
Newaygo.....	69	68	.....	.....	1	.....
Oakland.....	266	.....	.....	.....	.....	266
Oceana.....	48	c 47	d 1	.....	.....	.....
Ontonagon.....	12	12	.....	.....	.....	.....
Oscoda.....	46	46	.....	.....	.....	.....
Ottawa.....	187	186	1	.....	.....	.....
Presque Isle.....	4	4	.....	.....	.....	.....
Saginaw.....	449	447	1	e 1	.....	.....
Sanilac.....	102	102	.....	.....	.....	.....
Schoolcraft.....	5	4	.....	.....	f 1	.....
Shiawassee.....	106	106	.....	.....	.....	.....
St. Clair.....	325	324	1	.....	.....	.....
St. Joseph.....	263	268	.....	.....	.....	.....
Tuscola.....	129	129	.....	.....	.....	.....
Van Buren.....	233	227	g 4	1	.....	.....
Washtenaw.....	270	265	h 5	.....	.....	.....
Wayne.....	462	443	i 14	.....	.....	.....
Wexford.....	9	9	.....	.....	.....	.....

a "African." b "Light." c 1 female "R." d "A." e Male "Dark"; female "Light." f 1 male White. g 1 couple "A"; 1 couple, Male "A," female "A & I"; 1 couple "Colored"; 1 female Mulatto. h 10 couples "A"; 4 couples "African."

The numerous foot-notes to Table V. show the imperfections in the work of those who solemnize and record marriages, as to statements concerning the color of persons married. The color should be stated as white, black, mulatto, Indian, white and Indian, etc. The use of such terms as "colored," "light," "dark," etc., indicates inexcusable carelessness on the part of those who make the record.

TABLE VI.—*Exhibiting, by Sex, the Nativity of Persons Married in Michigan during the Year 1872; Population June 1, 1870, Represented by Returns of Marriages in 1872; and Per Cent. of Persons Married to Population of same Nativity.*

NATIVITY.	MARRIAGES.		POPULATION JUNE 1, 1870, REPRESENTED BY MARRIAGES IN 1872.				PERSONS MARRIED.			Per Cent. of Persons Married in 1872 to Population of same Nativity June 1, 1870.	
	Number.	Per Cent. of Total.	Total.	Male.	Female.	Number.					
						Total.	Male.	Female.			
Total	9,582	100.00	1,181,676	616,838	564,838	19,764	9,582	9,582	1.67	1.60	1.75
Native	5,938	60.09	916,753	469,700	447,053	18,737	6,625	7,119	1.50	1.41	1.50
Foreign	1,784	18.05	261,923	147,158	117,765	5,429	2,958	2,471	2.05	2.01	2.10
Foreign Male and Native Female...	1,174	11.88	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foreign Female and Native Male...	687	6.95	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nativity Unknown.....	299	3.08	.....	.....	.....	593	299	299	.....	.....	.....
One or Both Native.....	7,799	78.92	.....	.....	.....	.....	.....	.....	.....	.....	.....
One or Both Foreign.....	3,445	36.89	.....	.....	.....	.....	.....	.....	.....	.....	.....

A less usual but more useful exhibit of the relation of marriages to inhabitants by nativity is shown in Exhibit C.

EXHIBIT C.—*Relation of Marriages in 1872 of Persons of all Nationalities, and of those where both parties were either Native or Foreign-born, to the Total, to the Native, and to the Foreign-born Inhabitants, June 1, 1870, aged 15 to 45 years.*

NATIVITY.	INHABITANTS JUNE 1, 1870, AGED 15 TO 45 YEARS.			NUMBER MARRIED.			PER CENT. OF PERSONS MARRIED IN 1872 TO INHABITANTS JUNE 1, '70, AG'D 15 TO 45 YRS.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nationalities.....	555,359	289,085	266,267	19,764	9,583	9,982	3.55	3.43	3.71
Native	387,806	195,765	191,541	18,737	6,625	7,119	3.55	3.38	3.71
Foreign.....	168,046	93,320	74,726	5,429	2,958	2,471	3.22	3.17	3.61

^a In the number married, this line includes marriages of "foreign males and native females," "foreign females and native males," and of persons whose nativity was "unknown."

By Exhibit C it will be seen that the relation of marriages to inhabitants at ages at which most marriages occur, is not very different among the foreign-born and among the native inhabitants. The reason why it appears so different in Table VI., is that the per cent. of marriages to native inhabitants is made small by the greater proportion of native inhabitants at ages under and over those at which marriages occur.

TABLE VII.—*By Sex and Periods of Age, the Population June 1, 1870, represented by Marriages in 1872, and by Sex the Number and Per Cent. of Persons Married at each Age and Period of Age, and the Per Cent. of Persons Married to Population of same Age and Period of Age.*

AGES, IN YEARS AND PERIODS OF YEARS.	MARRIAGES.					Population at each Age and Period, June 1, 1870, Repre- sented by Mar- riages in 1872. ^a		Per Cent. of Marriages to Popu- lation of Cor- responding Age.	
	Total No. of Persons Married.	MALES.		FEMALES.		Males.	Females.	Males.	Females.
		Number Mar- ried.	Per Cent. of Total No. of Marriages.	Number Mar- ried.	Per Cent. of Total No. of Marriages.				
All Ages	19,764	9,982	100.00	9,982	100.00	376,438	368,042	2.65	2.60
13	8	-----	-----	8	.08	-----	13,232	-----	.02
14	26	-----	-----	26	.26	-----	12,907	-----	.20
15	119	-----	-----	119	1.20	-----	11,630	-----	1.02
16	528	1	.01	527	5.33	12,557	12,471	-----	4.23
17	829	4	.04	825	8.35	11,729	11,300	.03	7.30
18	1,155	60	.61	1,095	11.08	12,409	12,689	.48	8.63
19	1,254	187	1.83	1,067	10.80	11,478	10,603	1.63	9.93
20	1,372	403	4.13	964	9.76	12,317	12,375	3.31	7.79
21 to 25	6,447	3,770	38.15	2,677	27.09	47,526	42,766	7.93	6.26
25 to 30	4,108	2,868	29.02	1,240	12.55	52,760	48,372	5.44	2.56
30 to 35	1,483	999	10.11	483	4.93	43,164	39,903	2.31	1.33
35 to 40	738	505	5.11	233	2.36	39,697	34,957	1.27	.81
40 to 45	582	351	3.55	181	1.83	32,060	28,229	1.07	.64
45 to 50	345	217	2.20	128	1.30	23,145	22,134	.77	.56
50 to 55	275	193	1.95	82	.83	24,077	18,106	.80	.45
55 to 60	143	99	1.00	43	.44	16,408	12,543	.69	.34
60 to 65	102	74	.75	28	.28	13,017	10,576	.57	.26
65 to 70	59	43	.43	17	.17	8,293	6,567	.51	.26
70 to 75	35	32	.32	3	.03	5,412	4,206	.50	.07
75 to 80	18	12	.12	1	.01	2,576	2,140	.46	.05
80 and over	4	4	.04	-----	-----	1,716	-----	.23	-----
Unknown Ages	140	56	.57	84	.85	212	151	26.42	55.63
Under 15	29	-----	-----	29	.29	-----	26,139	-----	.11
15 to 20	3,355	252	2.55	3,083	30.76	45,233	56,633	.52	6.13
20 to 25	7,319	4,173	42.23	3,141	31.34	59,343	55,141	6.93	6.60

^a Population at ages at which marriages occurred.

^b At which marriages occurred.

TABLE VIII.—*Exhibiting, for the State and Counties, by Sex, the Nativity and Age in Periods of Years, of Persons Married in Michigan during the Year ending December 31, 1872.*

STATE AND COUNTIES.	No. of Couples.	NATIVITY.					SEX STATED.	MARRIAGES AT DIFFERENT AGES STATED IN PERIODS OF YEARS.														
		Native.	Foreign.	Foreign Males. Native Females.	Foreign Males. Native Females.	One or Both Unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
State.....	9,882	5,988	1,734	1,174	687	299	Total..... Males..... Females....	3,914 253 3,662	7,819 4,178 3,641	4,108 2,968 1,340	1,438 999 489	788 500 268	832 851 181	845 917 126	275 198 83	143 99 48	102 74 23	59 43 17	25 83 17	13 12 8	4 4 1	140 56 84
Alcona.....	8	2	8	1	1	1	Males..... Females....	..... 4	8	2 2	1 2	2.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Allegan.....	251	156	27	85	15	18	Males..... Females....	5 109	120 71	63 28	25 8	5 5	10 8	4 4	2 5	7 1	8 1	2.....	.....	.....	.....	.....
Alpena.....	54	6	33	6	7	2	Males..... Females....	..... 21	..... 20	..... 7	..... 2	..... 6	..... 2	..... 8	.....	.....	.....	.....	.....	.....	.....	.....
Antrim.....	20	9	8	5	8	.....	Males..... Females....	10	11 8	5 2	2	1 .....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Barry.....	156	129	6	10	7	4	Males..... Females....	4 64	42 57	20 14	20 6	10 4	5 5	2 2	4 1	1	1.....	.....	.....	.....	.....	.....
Bay.....	175	45	48	46	33	8	Males..... Females....	5 69	70 62	57 18	14 11	10 9	8	2 1	2 3	2 1	2.....	.....	.....	.....	.....	.....
Benzie.....	14	9	.....	2	1	2	Males..... Females....	..... 11	7 9	3	1.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TABLE VIII.--CONTINUED.

COUNTIES.	No. of Couples.	NATIVITY.				Sex Stated.	MARRIAGES AT DIFFERENT AGES STATED IN PERIODS OF YEARS.															
		Native.	Foreign.	For'n Males, Native B-c.	Foreign Males, N-c and Males.		One or Both Unknown.	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Berrien.....	381	256	41	41	15	28	Males..... Females...	5 147	161 335	111 44	87 17	18 9	11 10	10 7	12 2	7 2	5 1	9 2	8 1	1 1	1 1	3 5
Branch	241	206	7	15	6	7	Males..... Females....	11 111	109 81	60 24	21 7	10 8	18 2	2 4	4 5	2 1	3 1	2 1	2 1	1 1	1 1	1 1
Calhoun	347	273	14	31	20	9	Males..... Females....	6 116	152 122	101 46	25 27	28 14	10 7	5 5	12 4	4 8	7 1	4 1	1 1	1 1	1 1	1 1
Cass	204	182	1	11	6	4	Males..... Females....	3 75	85 71	56 35	18 8	14 5	10 6	8 1	6 8	1 1	2 1	1 1	1 1	1 1	1 1	1 1
Charlevoix.....	17	8	2	4	8	---	Males..... Females....	10 4	7 4	4 1	2 1	2 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
Cheboygan.....	7	4	2	---	1	---	Males..... Females....	6 1	6 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
Chippewa.....	7	2	2	1	2	---	Males..... Females....	8 8	8 3	2 2	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
Clare.....	8	4	1	8	---	---	Males..... Females....	8 8	1 2	3 1	4 2	4 2	---	---	---	---	---	---	---	---	---	---
Clinton	151	121	10	16	8	1	Males..... Females....	6 63	71 68	38 8	19 7	6 8	7 1	5 4	9 1	2 1	1 2	1 2	1 2	1 2	1 2	1 2
Delta.....	21	2	12	1	5	1	Males..... Females....	10 10	9 4	9 7	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1

MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE. 139

Eaton.....	239	202	6	15	9	8	Males..... Females.....	15 102	04 81	72 28	21 8	10 10	4 8	1 1	1 1	1 1	1 1	1 1
Emmet.....	9	7	.....	2	.....	.....	Males..... Females.....	1 7	6 1	1 1	.....	.....	.....	.....	.....	.....	.....
Genesee.....	266	198	17	48	21	7	Males..... Females.....	5 115	180 92	69 33	28 16	15 12	8 8	8 2	6 8	1 3	1 2	1 2
Grand Traverse.....	32	20	4	4	2	2	Males..... Females.....	..... 10	13 12	19 1	8 1	3 1	.....	.....	.....	.....	.....	.....
Gratiot.....	80	68	3	6	0	2	Males..... Females.....	7 45	40 23	28 8	2 1	4.....	.....	.....	.....	.....	.....	.....
Hillsdale.....	335	310	5	19	5	16	Males..... Females.....	23 122	163 141	98 44	29 18	11 11	6 8	7 4	3 2	1 2	1 10	2 10
Houghton.....	106	18	69	13	1	5	Males..... Females.....	8 38	44 41	38 22	9 5	5 2	4 2	.....	.....	.....	.....	.....
Huron.....	87	7	48	16	16	.....	Males..... Females.....	2 52	42 24	24 8	8 1	4 1	3 8	1 2	.....	.....	.....	.....
Ingham.....	217	157	9	21	11	19	Males..... Females.....	9 98	100 64	37 20	27 10	5 5	7 5	6 1	1 8	1 1	1 9	9 9
Ionia.....	229	204	18	14	19	4	Males..... Females.....	6 108	116 95	73 29	20 13	20 7	4 5	6 5	8.....	.....	.....	.....
Iosco.....	41	13	14	8	9	.....	Males..... Females.....	1 21	20 18	15 6	2 2	2.....	.....	.....	.....	.....	.....	.....
Isabella.....	83	28	1	5	3	1	Males..... Females.....	2 20	20 9	9 2	..... 5	.....	.....	.....	.....	.....	.....	.....
Jackson.....	301	206	32	32	23	11	Males..... Females.....	9 107	127 114	88 42	39 11	13 9	2 8	6 8	4	8	1 4	4
Kalamazoo.....	341	256	31	28	17	9	Males..... Females.....	5 92	126 141	108 45	40 19	15 14	10 9	9 8	4	2 2	1 1	1 1

* The marriages in Delta county for the first part of 1873 were returned with those for 1871. No returns to this Department for 1872.

TABLE VIII.—CONTINUED.

COUNTIES.	No. of Couples.	NATIVITY.					SEX STATED.	MARRIAGES AT DIFFERENT AGES STATED IN PERIODS OF YEARS.														
		Native.	Foreign.	For'n Males, Native R. p.	Foreign Males, Native R. p.	One or Both Unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Berrien.....	331	256	41	41	15	28	Males..... Females...	5 147	161 135	111 44	87 17	18 9	11 10	10 7	12 2	7 2	5 1	9 2	8 1	75 to 80.	80 and over.	Unknown.
Branch	241	206	7	15	6	7	Males..... Females...	11 111	109 81	60 24	21 7	10 5	18 2	2 4	4 5	2 1	2 1	2 1	2 1	75 to 80.	80 and over.	Unknown.
Calhoun	347	273	14	31	20	9	Males..... Females...	6 116	152 122	101 46	25 27	23 14	10 7	5 6	12 4	4 8	4 1	4 1	1 1	75 to 80.	80 and over.	Unknown.
Cass.....	204	182	1	11	6	4	Males..... Females...	3 75	85 71	56 35	18 8	14 5	10 6	8 1	6 1	1 3	1 1	1 1	1 1	75 to 80.	80 and over.	Unknown.
Charlevoix.....	17	8	2	4	3	1	Males..... Females...	10 4	7 4	4 2	2 1	2 1	1 1	1 1	1 1	1 1	1 1	1 1	75 to 80.	80 and over.	Unknown.	
Cheboygan.....	7	4	2	2	1	1	Males..... Females...	5 1	6 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	75 to 80.	80 and over.	Unknown.	
Chippewa.....	7	2	2	1	2	2	Males..... Females...	8 1	8 2	9 2	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	75 to 80.	80 and over.	Unknown.	
Clare.....	6	4	1	3	2	1	Males..... Females...	8 1	1 2	3 1	4 2	4 1	4 1	4 1	4 1	4 1	4 1	4 1	75 to 80.	80 and over.	Unknown.	
Clinton	151	121	10	16	8	1	Males..... Females...	6 63	74 68	33 8	12 7	6 3	7 1	5 4	2 1	2 1	2 1	2 1	8 1	75 to 80.	80 and over.	Unknown.
Delta.....	21	2	12	1	5	1	Males..... Females...	10 4	10 4	9 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	75 to 80.	80 and over.	Unknown.	

MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE. 139

Eaton.....	239	202	6	15	5	8	Males..... Females...	15 102	94 81	72 28	21 8	10 10	4 4	8 8	1 1	1 1	4 1	1 1	1 1
Emmet.....	9	7	.....	2	.....	.....	Males..... Females...	1 7	6 1	1 1	.....	.....	1	.....	.....	.....	.....	.....	.....
Gonesee.....	286	198	17	43	21	7	Males..... Females.....	5 115	180 92	69 33	28 16	15 13	14 8	8 2	8 2	6 2	1 1	1 1	2 2
Grand Traverse.	32	20	4	4	2	2	Males..... Females.....	.....	18 12	19 1	8 1	8 1	.....	.....	.....	1 1	.....	.....	.....
Gratiot.....	80	63	8	6	6	2	Males..... Females.....	7 45	40 23	28 8	2 1	4 1	.....	.....	2 1	.....	.....	.....	.....
Hillsdale.....	355	310	5	19	5	16	Males..... Females.....	20 122	163 141	98 44	29 13	11 9	6 4	7 2	5 2	3 2	1 1	10 10	2 1
Houghton.....	106	18	69	13	1	5	Males..... Females.....	8 83	44 41	38 22	9 6	5 2	4 2	2 1	.....	.....	.....	1	.....
Huron.....	87	7	48	16	16	.....	Males..... Females.....	2 53	42 24	24 8	8 1	4 1	8 2	1 2	.....	.....	.....	.....	.....
Ingham.....	217	157	9	21	11	19	Males..... Females.....	9 93	100 64	37 20	27 10	5 5	5 5	7 6	1 1	4 1	.....	1 9	9 9
Ionia.....	259	204	18	14	19	4	Males..... Females.....	6 108	116 95	73 29	20 13	20 7	4 5	6 5	8 1	.....	8	.....	1
Iosco.....	44	13	14	8	9	.....	Males..... Females.....	1 21	20 13	15 6	2 2	2 1	.....	2 1	1 1	.....	.....	.....	.....
Isabella.....	33	28	1	5	8	1	Males..... Females.....	2 20	20 9	9 2	.....	2 2	2 1	1 1	.....	1	.....	.....	.....
Jackson.....	304	206	32	32	23	11	Males..... Females.....	9 107	127 114	88 42	39 19	11 8	2 8	6 8	4	8	1	1	4
Kalamazoo.....	341	256	31	25	17	9	Males..... Females.....	5 99	126 141	108 43	40 19	15 14	10 9	9 8	4 2	2 1	1	1	1

* The marriages in Delta county for the first part of 1873 were returned with those for 1871. No returns to this Department for 1873.

TABLE VIII.—CONTINUED.

COUNTIES.	No. of Couples.	NATIVITY.					SEX STATED.	MARRIAGES AT DIFFERENT AGES STATED IN PERIODS OF YEARS.															
		Native.	Foreign.	For'n Native Re- males.	Foreign Re- males, Na- tive.	One or Both Unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
Kalkaska.....	5	3	1	.....	1	.....	Males.....	2	.....	4	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
							Females.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kent.....	544	835	85	73	40	11	Males.....	13	221	151	71	27	24	16	7	4	6	2	2	.....	.....	.....	1
							Females.....	193	197	70	84	17	14	9	8	2	2	1	.....	.....	.....	.....	3
Keweenaw.....	1	.....	.....	1	.....	.....	Males.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
							Females.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake.....	5	4	1	2	.....	1	Males.....	.....	4	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
							Females.....	3	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lapeer.....	158	75	30	21	25	4	Males.....	7	70	38	15	8	10	4	3	1	1	.....	.....	.....	.....	.....	.....
							Females.....	58	61	30	4	7	2	5	1	.....	.....	.....	.....	.....	.....	.....	.....
Leelanaw.....	29	7	18	8	1	.....	Males.....	.....	6	8	8	2	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
							Females.....	14	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lenawee.....	438	839	27	25	17	15	Males.....	10	226	119	45	20	19	6	8	4	4	4	8	.....	.....	.....	.....
							Females.....	175	191	60	25	12	8	1	6	1	3	1	.....	.....	.....	.....	.....
Livingston.....	160	115	11	16	6	10	Males.....	6	64	53	20	8	5	1	2	2	3	.....	.....	.....	.....	.....	.....
							Females.....	59	68	21	6	8	3	2	1	.....	.....	.....	.....	.....	.....	.....	.....
Mackinac.....	.....	.....	.....	.....	.....	.....	Males.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
							Females.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macomb.....	152	60	40	32	16	4	Males.....	4	61	49	10	6	5	5	6	4	.....	3	1	8	.....	.....	.....
							Females.....	48	66	19	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

	b1	18	29	3	5	Males Females	16	14	19	10	6	1	1	1	1	1	1
Manissee.....																	
Manitou..... ^b																	
Marquette.....	190	18	140	26	6	Males..... Females....	4 63	71 59	89 46	18 18	9 4	4 4	2 1	2 1			
Mason	29	11	10	6	2	Males..... Females....	1 18	8 8	6 4	4 1	3 1	1 1	1 1				
Mecosta.....	76	83	30	11	11	Males..... Females....	1 80	34 81	25 8	11 5	3 1	1 1	1 1				
Menominee.....	16	7	6	3	1	Males..... Females....	--- 5	2 7	6 1	--- 2	1 1	1 1	1 1				
Midland	83	17	1	10	3	Males..... Females....	1 15	13 9	11 8	1 1	1 1	1 1	1 1				
Misankee.....	4	2	1	1	---	Males..... Females....	--- 4	3 ---	1 ---	---	---	---	---				
Munroe	204	190	21	35	15	Males..... Females....	3 67	75 87	74 28	21 9	10 8	8 3	1 1	4 1	1 1	1 1	1 1
Montcalm.....	137	86	21	9	12	Males..... Females....	8 57	61 16	88 7	16 4	3 3	6 8	1 2	3 2	1 1		
Muskegon	157	67	48	25	12	Males..... Females....	4 62	45 53	46 17	80 10	17 4	8 2	2 3	2 2	1 1	1 1	1 1
Newaygo	69	89	6	11	9	Males..... Females....	1 39	36 18	19 8	4 2	5 1	8 1	1 1	1 1			
Oakland	266	185	16	39	18	Males..... Females....	2 65	105 103	81 53	18 14	11 9	9 7	5 4	8 1	3 1	1 1	1 1
Oceana.....	48	83	8	5	5	Males..... Females....	1 26	24 14	14 ---	2 2	4 8	--- ---	2 1	1 1			

No marriages on record in county clerk's office.

No returns to this Department.

TABLE VIII.—CONTINUED.

COUNTIES.	No. of Couples.	NATIVITY.				SEX STATED.	MARRIAGES AT DIFFERENT AGES STATED IN PERIODS OF YEARS.															
		Native.	Foreign.	For'n Males, Native F.	Foreign Males, Na- tive F.		One or Both Unknown.	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Ontonagon	12	1	9	.....	2	.....	8	4	1	2	8	1	2	.....	1	.....	.....	.....	.....	.....	.....	.....
Oscoda	46	29	6	6	5	.....	1	17	11	4	7	8	2	.....	.....	.....	.....	1	.....	.....	.....	.....
Ottawa	187	59	85	27	13	8	.....	11	74	45	20	14	5	7	7	.....	1	.....	.....	.....	.....	.....
Presque Isle.....	4	.....	8	1	.....	.....	.....	71	65	22	10	8	7	2	8	.....	.....	.....	.....	.....	.....	.....
Saginaw.....	449	152	176	66	49	6	.....	10	157	130	68	25	12	5	8	2	.....	1	.....	.....	.....	.....
Sanilac	102	18	46	21	17	.....	.....	2	40	38	18	6	4	.....	1	.....	.....	.....	.....	.....	.....	.....
Schoolcraft.....	5	.....	2	8	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shiawassee.....	106	81	2	10	8	2	.....	2	50	28	7	1	8	6	1	.....	1	.....	.....	.....	.....	.....
St. Clair.....	325	74	154	51	32	14	.....	11	143	95	26	18	11	8	4	4	.....	2	1	1	.....	.....

MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE. 143

St. Joseph.....	263	227	29	13	5	1 Males..... Females...	8 59	119 120	73 84	29 17	12 7	6 2	6 3	6 3	5 2	8 2	8 2	1 1	1 1	1 1	1 1
Tuscola.....	129	70	19	21	14	6 Males..... Females...	2 62	58 41	37 12	6 5	10 8	4 3	4 2	4 2	5 1	1 1	1 1	2 1	2 1	2 1	2 1
Van Buren.....	232	133	5	20	14	8 Males..... Females...	4 95	100 84	63 19	20 11	10 9	5 4	8 2	8 2	7 4	4 1	4 1	2 1	2 1	2 1	2 1
Washtenaw.....	270	163	55	32	12	5 Males..... Females...	6 73	97 102	96 58	24 16	15 8	10 8	8 8	8 8	8 2	8 2	8 2	2 2	2 2	2 2	2 2
Wayne.....	462	159	200	71	42	10 Males..... Females...	9 120	171 206	156 68	44 25	22 11	18 10	16 10	16 10	16 4	16 4	16 4	2 1	2 1	2 1	2 1
Wexford.....	9	6	2	.....	1	Males..... Females...	1 6	4 1	2 1	..... .....	..... .....	1	1	1.....	..........	..........	..........	..........	..........	..........	..........

[illegible]

^a Not legal marriages. For law and penalty to persons solemnizing, see Sections (4719), (4720), (4725), and (4729), Compiled Laws of 1871, pages 1402 and 1408, printed also in back part of this Report.

TABLE IX.—CONTINUED.

COUNTIES.	AGES OF MALES.				AGES OF FEMALES.											
	Total No. Mar- ried under 21 Years of Age.	Males Married under 21 Years of Age.	Females Married under 21 Years of Age.	Twenty.	Nineteen.	Eighteen.	Seventeen. ^a	Sixteen. ^a	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen. ^a	Fourteen. ^a	Thirteen. ^a
Lake.....	4	.....	4	.....	.....	.....	.....	.....	1	.....	1	.....	2	.....	.....	.....
Lapeer.....	89	17	72	10	7	.....	.....	.....	14	9	25	12	11	.....	1	.....
Leelanaw.....	18	1	17	1	.....	.....	.....	.....	8	8	2	5	3	1	.....	.....
Lenawee.....	260	88	227	23	7	8	.....	.....	52	64	49	40	20	2	.....	.....
Livingston.....	89	18	76	7	8	8	.....	.....	17	20	19	14	5	.....	1	.....
Mackinac..... ^b	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macomb.....	69	9	60	5	4	.....	.....	.....	18	9	18	7	6	2	.....	.....
Manistee.....	16	1	15	1	.....	.....	.....	.....	1	5	3	.....	5	1	.....	.....
Manitou..... ^b	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marquette.....	85	8	77	4	4	.....	.....	.....	14	17	18	15	9	2	1	1
Mason.....	14	2	12	1	.....	1	.....	.....	.....	4	4	2	1	.....	1	.....
Mecosta.....	38	1	37	.....	.....	1	.....	.....	7	11	9	5	4	.....	1	.....
Menominee.....	7	.....	7	.....	.....	.....	.....	.....	2	1	2	2	.....	.....	.....	.....
Midland.....	19	2	17	1	1	.....	.....	.....	2	3	3	5	3	1	.....	.....
Missaukee.....	5	1	4	1	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Monroe.....	88	6	88	2	3	.....	.....	.....	16	18	22	17	9	1	.....	.....

Montcalm.....	82	14	68	11	2	1	.....	11	7	20	16	10	8	1	....
Muskegon.....	79	7	72	8	4	.....	.....	10	12	23	13	10	3	1	....
Newaygo.....	47	5	42	4	1	.....	.....	3	11	5	10	13	.....	.....	.....
Oakland.....	94	6	88	4	1	1	.....	23	17	25	12	9	2	.....	.....
Oceana.....	81	2	29	1	.....	1	.....	8	5	2	10	7	1	.....	1
Ontonagon.....	7	2	5	2	.....	.....	.....	2	1	1	1	.....	.....	.....	.....
Oscoda.....	80	4	26	3	1	.....	.....	.....	6	4	4	10	1	1	.....
Ottawa.....	116	21	95	10	9	2	.....	24	26	14	18	11	2	.....	.....
Presque Isle.....	8	.....	3	.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....
Saginaw.....	203	23	150	13	8	2	.....	43	44	26	24	27	10	1	.....
Sanilac.....	64	6	65	4	2	.....	.....	9	15	10	15	8	.....	1	.....
Schoolcraft.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
Shiawassee.....	60	6	54	4	2	.....	.....	8	18	13	10	9	1	.....	.....
St. Clair.....	190	25	165	14	8	3	.....	35	36	42	30	17	3	1	.....
St. Joseph.....	132	19	118	16	2	1	.....	31	25	31	15	10	1	.....	.....
Tuscola.....	51	5	73	6	2	.....	.....	11	14	15	18	9	6	.....	.....
Van Buren.....	137	13	124	9	3	1	.....	20	27	33	21	12	1	1	.....
Washtenaw.....	110	13	97	7	4	2	.....	24	27	31	12	8	.....	.....	.....
Wayne.....	190	21	166	15	7	2	.....	46	51	35	23	10	1	.....	.....
Wexford.....	8	1	7	.....	.....	1	.....	1	8	1	.....	1	.....	1	.....

* Not legal marriages. For law and penalty to persons solemnizing, see Sections (4719), (4720), (4723), and (4729), Compiled Laws of 1871, pages 1463 and 1468, printed also in back part of this Report.

^b See foot-notes for corresponding counties in Table VIII., pages 140 and 141.

Among other instructive material in Table IX., it appears therefrom that the forms of marriage were "solemnized" by ministers or justices of the peace in the case of 148 girls and 5 boys who had not yet reached the age specified in the law of this State as the least at which they shall be capable of contracting marriage. Sections (4719) 1, and (4720) 2, Chapter clxix, Compiled Laws of 1871, relating to this subject, may be found in the back part of this Report. The attention of ministers and justices of the peace should be called to it, and the penalty for such action, which seems to be specified in Section (4729) 15, and is not a slight one.

TABLE X.—*Exhibiting the Number of each Sex at each Period of Age, who were Married in Michigan during the year 1872; and the Number of each Sex, at each Period of Age, who were United to the Opposite Sex, at each Period of Age.*

AGES OF MALES.	AGES OF FEMALES.															Total Males.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Over 80.	Unknown.	
Under 20.....	195	49	5	1	1	---	---	---	---	---	---	---	---	---	1	255
20 to 25	2,242	1,659	216	80	6	2	---	---	---	---	1	---	---	---	20	4,173
25 to 30	985	1,300	508	94	17	6	---	---	---	---	---	---	---	---	5	2,568
30 to 35	193	381	260	111	41	7	4	---	---	---	---	---	---	---	2	999
35 to 40	60	148	108	99	63	23	6	2	1	---	---	---	---	---	---	503
40 to 45	22	67	69	69	66	32	14	9	1	---	---	---	---	---	2	351
45 to 50	7	24	33	44	41	39	15	9	2	1	1	---	---	---	1	217
50 to 55	4	6	28	29	26	34	39	14	9	2	---	---	---	---	---	193
55 to 60	-----	4	7	6	12	18	21	22	6	2	1	---	---	---	---	99
60 to 65	1	1	2	5	6	16	18	15	8	3	3	1	---	---	---	74
65 to 70	-----	-----	2	-----	1	2	7	7	9	10	4	---	---	---	---	43
70 to 75	1	1	1	1	-----	1	7	3	5	6	3	1	---	---	---	32
75 to 80	1	-----	-----	-----	-----	1	2	1	2	2	3	---	---	---	---	19
Over 80.....	-----	-----	-----	-----	1	-----	-----	-----	-----	---	1	1	1	-----	---	4
Unknown....	1	4	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	50	56
Total Femal's	3,662	3,641	1,240	489	283	181	128	82	43	28	17	8	1	---	54	9,882

To those not familiar with the plan of Table X., it may be stated in explanation that, among other items, it exhibits in the first line the fact that 252 males aged under 20 years married females aged as follows: 195, under 20 years; 49, 20 to 25 years; 5, 25 to 30 years; 1, 30 to 35 years; 1, 35 to 40 years; and 1 whose age was not stated. Beginning now with the females, at the lower left-hand corner, it shows that 3,662 females aged under 20 years married males aged as follows: 195, under 20 years; 2,242, 20 to 25 years; 935, 25 to 30 years; 193, 30 to 35 years; 60, 35 to 40 years; 22, 40 to 45 years; 7, 45 to 50 years; 4, 50 to 55 years; 1, 60 to 65 years; 1, 70 to 75 years; 1, 75 to 80 years; and 1 whose age was not stated.

The period in which the greatest number of marriages of males occurred was that of 20 to 25, the number of marriages being 4,178. The greatest number of marriages of females was in the period under 20 years of age; but deducting the sham marriages of 148 girls not legally of a marriageable age, would leave the greatest number in the period of 20 to 25 years of age.

Table XI. exhibits some of the most remarkable marriages so far as relates to disparity of age. Many of these were not legal marriages, but they are included as returned because of their statistical value, and that the truth may be known.

TABLE XI.—*Marriages with great Disparity of Age, in Michigan during the Year ending December 31, 1872.*

COUNTIES.	BRIDEGROOM OLDEST.			BRIDE OLDEST.		
	OCCUPATION OF BRIDEGROOM.	Age of Bride- groom.	Age of Bride.	OCCUPATION OF BRIDEGROOM.	Age of Bride- groom.	Age of Bride.
Allegan	Farmer	45	19	Lumberman.....	28	68
Barry	Cooper	70	47	.....	.....	.....
Bay	{ Fisherman.....	80	15	.....	.....	.....
	{ Farmer.....	70	82	.....	.....	.....
Benzie.....	{ Unknown.....	50	18	.....	.....	.....
	{ Farmer.....	72	17	.....	.....	.....
Berrien.....	{ Farmer.....	72	27	.....	.....	.....
	{ Prison Guard.....	48	14	.....	.....	.....
Branch.....	Farmer.....	75	16	.....	.....	.....
Calhoun.....	{ Farmer.....	48	20	Carpenter.....	24	42
	{ Night Watchman.....	64	84			
Cass.....	Farmer.....	46	22	.....	.....	.....
Charlevoix.....	Farmer.....	85	15	.....	.....	.....
Eaton.....	Farmer.....	75	43	.....	.....	.....
Genesee.....	Hotel-keeper.....	45	19	.....	.....	.....
Grand Traverse..	Laborer.....	85	19	.....	.....	.....
Gratiot.....	Farmer.....	85	16	Tinner.....	18	22
Hillsdale.....	Farmer.....	83	17	.....	.....	.....
Houghton.....	.....	.....	.....	{ Miner.....	26	40
Huron.....	Laborer.....	29	14	{ Laborer.....	19	82
Ingham.....	Farmer.....	45	14	.....	.....	.....
Ionia.....	Farmer.....	57	21	.....	.....	.....
Jackson.....	{ Teacher.....	52	20	.....	.....	.....
	{ Farmer.....	67	29	.....	.....	.....
Kalamazoo.....	Attorney at law...	44	19	Farmer.....	19	35
Kent.....	{ Wagon-maker.....	61	19	.....	.....	.....
	{ Farmer.....	86	14	.....	.....	.....
Leelanaw.....	{ Carpenter.....	85	17	Laborer.....	21	36
	{ Farmer.....	80	18			
Lenawee.....	{ Farmer.....	74	22	.....	.....	.....
	{ Farmer.....	48	19	.....	.....	.....
Macomb.....	{ Farmer.....	50	22	.....	.....	.....
	{ Farmer.....	68	25	.....	.....	.....
Marquette.....	Laborer.....	85	17	.....	.....	.....
Mason.....	Physician.....	51	17	.....	.....	.....
Montcalm.....	.....	.....	.....	Farmer.....	46	66
Muskegon.....	{ Farmer.....	47	18	.....	.....	.....
	{ Laborer.....	58	28	.....	.....	.....
Newaygo.....	Laborer.....	47	17	.....	.....	.....

TABLE XI.—CONTINUED.

COUNTIES.	BRIDEGROOM OLDEST.			BRIDE OLDEST.		
	OCCUPATION OF BRIDEGROOM.	Age of Bride- groom.	Age of Bride.	OCCUPATION OF BRIDEGROOM.	Age of Bride- groom.	Age of Bride.
Oakland.....	{ Farmer.....	50	28	.....	.....	.....
	{ Manufacturer.....	71	45	.....	.....	.....
Oceana.....	.....	.....	.....	R. R. Builder.....	35	56
Osceola.....	Farmer.....	40	17	.....	.....	.....
Saginaw.....	{ Farmer & Trader.....	44	19	.....	.....	.....
	{ Baker.....	52	18	.....	.....	.....
Sanilac.....	Farmer.....	44	17	.....	.....	.....
St. Clair.....	Shoemaker.....	75	45	{ Farmer.....	24	83
				{ Laborer.....	20	83
St. Joseph.....	{ Farmer.....	60	28	.....	.....	.....
	{ Blacksmith.....	54	18	.....	.....	.....
Tuscola.....	Farmer.....	84	39	.....	.....	.....
Van Buren.....	Carpenter.....	42	17	.....	.....	.....
Washtenaw.....	Lawyer.....	42	15	.....	.....	.....
Wayne.....	{ Grocer.....	57	21	.....	.....	.....
	{ Tailor.....	70	45	.....	.....	.....

TABLE XII.—*Exhibiting, for the State and Counties, the Number of Marriages in Michigan during the Years 1868, 1869, 1870, 1871, and 1872, as first Returned to the State Department; the Number Sol-
emized during the Years 1868, 1869, 1870, and 1871, Returned since the publication of the Annual
Reports; the Population June 1, 1870; Number of Inhabitants in 1870 to one Marriage in 1872; and the
Per Cent. of Marriages in 1872 to Population in 1870.*

STATE AND COUNTIES.	MARRIAGES.															No. of Inhabitant June 1, 1870, to one Marriage in 1872.	Per Cent. of Marriages in 1872 to Population June 1, 1870.
	1868.			1869.			1870.			1871.			1872.				
	No. as first returned Report.	No. returned pre- vious to November 1, 1871.	No. returned since November 1, 1871.	No. as first returned and published in Report.	No. returned pre- vious to November 1, 1871.	No. returned since November 1, 1871.	No. as first returned and published in Report.	No. returned since Report was pub- lished.	No. returned pre- vious to May 1, 1874.	No. returned.							
State.....	6,562	8,605	40	8,645	10,138	198	10,296	9,160	9,648	64	9,707	10,151	277	10,458	9,882	120	.84
Alcona.....	.....	.....	.....	.....	7	.....	7	5	8	.....	8	3	1	4	8	90	1.04
Algon.....	167	259	.....	259	260	.....	260	277	278	.....	278	215	.....	215	251	127	.78
Alpena.....	24	24	.....	24	42	2	44	6	7	1	8	26	8	29	54	51	1.96
Antrim.....	15	15	.....	15	14	.....	14	16	16	.....	16	18	.....	18	20	99	1.01
Barry.....	120	148	.....	148	167	1	168	109	170	.....	170	156	.....	156	156	142	.70
Bay.....	118	118	2	115	56	6	92	125	126	.....	126	118	.....	118	175	90	1.10

Mackinac	185	165	161	213	3	216	206	208	16	16	208	225	8	281	152	27,019	181	55
Macomb	27	28	26	88	---	82	81	84	---	---	54	85	---	85	51	6,074	119	54
Manistee	---	---	---	---	---	---	---	---	---	---	---	4	---	4	---	---	---	---
Manitou	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marquette	45	45	75	81	---	81	145	145	---	---	145	145	---	145	190	14,278	75	188
Mason	21	28	28	27	---	27	25	26	---	---	26	36	---	36	29	8,266	112	55
Mecosta	52	57	57	74	---	82	56	56	---	---	56	62	---	62	76	5,645	74	185
Menominee	18	18	13	11	---	11	4	4	---	---	4	8	1	9	16	1,895	118	84
Midland	24	25	28	27	---	27	29	29	1	---	30	25	---	25	30	8,258	109	91
Missaukee	---	---	---	---	---	---	1	1	---	---	1	1	---	1	4	130	32	8.07
Monroe	122	146	148	213	5	229	204	218	8	---	221	206	21	227	204	27,475	184	74
Montcalm	70	80	80	85	---	96	90	90	---	---	90	125	---	125	187	18,641	99	1.00
Muskegon	70	71	71	183	---	183	101	101	---	---	101	129	3	182	157	14,592	94	1.06
Newaygo	51	54	54	58	---	58	47	59	---	---	59	66	---	66	69	7,992	105	95
Oakland	153	207	206	830	2	824	811	321	---	---	821	834	15	319	266	40,906	158	65
Oceana	77	81	81	64	---	79	54	54	---	---	54	60	---	60	48	7,222	15	66
Ontonagon	7	9	13	15	---	15	9	9	2	---	11	6	---	6	12	2,846	287	43
Oscoda	---	---	---	15	---	15	14	14	---	---	14	31	---	31	46	2,104	45	2.19
Ottawa	183	207	207	177	---	215	159	137	---	---	187	202	2	204	187	26,650	142	70
Presque Isle	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	355	88	1.12
Saginaw	152	182	1	153	---	188	249	310	---	---	310	382	4	386	419	39,003	87	1.15

* Except of Counties from which no returns of marriages in 1872 were received. b Includes population of unorganized County of Ogemaw.

Except of Counties from which no returns of marriages in 1872 were received.

TABLE XII.—CONTINUED.

COUNTIES.	MARRIAGES.																Population June 1, 1870. ^a	No. of Inhabitants June 1, 1870, to one Marriage in 1872.	Per Cent. of Marriages in 1872 to Population June 1, 1870.	
	1868.				1869.				1870.				1871.							1872.
	No. as first returned in Report.	No. returned previ- ous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previ- ous to May 1, 1874.	No. as first returned in Report.	No. returned previ- ous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previ- ous to May 1, 1874.	No. as first returned in Report.	No. returned previ- ous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previ- ous to May 1, 1874.	No. as first returned in Report.	No. returned since November 1, 1871.	No. returned previ- ous to May 1, 1874.					
Sanilac.....	17	92	---	92	91	107	---	107	91	91	9	100	96	16	112	102	14,565	142	.70	
Schoolcraft.....	---	---	---	---	---	---	---	---	2	2	---	2	---	---	---	5	799	159	.63	
Shiawassee.....	145	158	---	163	129	170	---	170	114	122	---	122	146	4	150	106	20,822	106	.51	
St. Clair.....	229	229	16	245	264	266	12	278	285	308	---	308	204	34	338	325	36,750	113	.83	
St. Joseph.....	214	290	---	290	259	312	1	313	231	236	---	236	309	21	330	268	26,272	95	1.02	
Tuscola.....	76	77	---	77	74	74	---	74	97	97	---	97	111	3	114	129	13,715	106	.94	
Van Buren.....	167	227	---	227	179	233	1	234	203	213	---	213	221	8	224	282	28,835	124	.80	
Washtenaw.....	216	237	---	237	300	363	1	364	238	313	8	321	300	8	303	270	41,440	159	.65	
Wayne.....	564	793	---	793	904	1,148	1	1,149	919	967	4	971	1,111	5	1,116	462	110,062	257	.83	
Wexford.....	---	---	---	---	4	4	---	4	5	5	---	5	8	1	9	9	650	72	1.38	

^a Except of Counties from which no returns of marriages in 1872 were received.

EXHIBIT D.—*Number of Inhabitants to one Marriage, as Stated for Different Foreign Countries, the United States, and some of the States of the Union. The Statements for Michigan include only the Inhabitants of Counties represented by Returns of Marriages.*

COUNTRY, STATE, OR CITY.	Year for which the Statement is Made.	Inhabitants to one Marriage annually.
Austria		117
Bavaria		160
Belgium		122
Denmark		129
England		122
Finland		141
France		122
Greece		174
Holland		129
Norway		124
Prussia		106
Russia		111
Saxony		107
Spain		141
Sweden		185
United States	1860	122
New York	1860	185
Massachusetts	1865	97
Ohio		105
Minnesota	1860	110
Minnesota	1868	107
Minnesota ^a	1870	116
Massachusetts ^b	1870	98.9
Massachusetts ^b	1871	94.9
Massachusetts ^b	1872	94.9
New Jersey ^c	1870	185.
New York City ^d	1869	108.
New York City ^e	1870	118.
Michigan ^f _g	1869	108.9
Michigan ^f	1870	119.9
Michigan ^f _g	1871	117.8
Michigan ^h _g	1873	181.0

Taken from "Statistics of Minnesota for 1869."

^a Taken from "Statistics of Minnesota for 1870."

^b Computed from data in Reg. Reports of Massachusetts for the respective years, the estimated population on page 6 of Report for 1874 being used in the statements for 1871 and 1872.

^c There were sixteen townships from which no returns of marriages were received. Computed from data in Reg. Report of New Jersey for 1870.

^d Computed from data in Report of Met. Board of Health for 1869.

^e Computed from data in Report of Board of Health, of Health Department, for 1870.

^f Marriages corrected up to May 1, 1874.

^g Population estimated from census of 1860 and 1870.

^h Marriages in some counties probably not yet all returned.

DEATHS.

The whole number of deaths returned as having occurred in Michigan during the year ending December 31, 1872, is 13,371.* This is 3,643 more than the number returned for 1871, 2,605 more than the number returned for 1870, and 4,226 more than the number returned for 1869. Judging from the returns, therefore, more deaths occurred in Michigan during the year 1872 than in either of the preceding years.

TABLE I.—Deaths in Michigan by Quarters of the Year ; Exhibiting the Per Cent. of Total Deaths Returned for each Quarter of the Years 1868, 1869, 1870, 1871, and 1872.

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.	1869.	1870.		1871.		1872.	
	Per Cent. of Total.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
Totals	100.00	100.00	10,766	100.00	9,728	100.00	13,371	100.00
March	21.70	19.22	1,698	15.77	1,588	19.41	2,299	17.19
June	19.04	21.80	2,121	19.70	2,097	21.55	2,984	21.94
September	33.64	32.24	3,920	36.41	2,926	30.08	4,441	33.21
December	24.84	26.20	2,992	27.79	2,760	28.37	3,667	27.43
Unknown .....	.76	.52	85	.32	57	.58	80	.22
Average	25.00 ^b	25.00	2,691.50	25.00	2,432.00	25.00	3,842.75	25.00

* We have reason to believe that only about 63.81 per cent. of the deaths for 1872 were returned. In order to make them equal the number of deaths which probably occurred, the 13,371 deaths returned should be multiplied by 1.56. Disregarding the few cases in which the month of death was not stated, the number is found to be 21,071. See Exhibit G on a following page.

^a The number of deaths for the month of April, 1868, was increased by one-fifth of the number published in the Second Registration Report, because of first five days not accounted for.

^b Including deaths in unknown quarter.

TABLE II.—Deaths in Michigan by Months, Exhibiting the Per Cent. of Total Deaths Returned for each Month of the Years 1868, 1869, 1870, 1871, and 1872, the Months arranged in Order by Number of Deaths, the greatest Number first.

ORDER.	1868.		1869.		1870.		1871.			1872.		
	Year and Mo's.	Per Cent of Total.	Year and Mo's.	Per Cent of Total.	Year and Mo's.	Per Cent of Total.	Year and Mo's.	Number.	Per Cent of Total.	Year and Mo's.	Number.	Per Cent of Total.
	Year.	100.00	Year.	100.00	Year.	100.00	Year.	9,728	100.00	Year.	18,871	100.00
1	Sept..	12.51	Sept..	18.05	Aug..	18.59	Aug..	1,088	11.18	Aug..	1,738	18.00
2	Aug..	11.93	Aug..	11.60	Sept..	12.66	Sept..	1,055	10.84	Sept..	1,658	12.86
3	Oct...	9.42	Oct...	9.55	Oct..	10.51	Dec..	1,029	10.58	Oct..	1,321	9.53
4	July..	9.07	Dec..	9.14	July..	10.06	Oct..	933	9.59	Dec..	1,285	9.68
5	Mar...	6.12	Mar...	8.82	Nov..	8.66	Nov..	795	8.20	April.	1,140	8.38
6	Dec..	8.11	April.	7.78	Dec..	8.61	July..	788	8.10	Nov..	1,058	7.91
7	Nov..	7.31	July..	7.51	June..	7.00	Mar...	731	8.08	July..	1,050	7.85
8	Feb...	7.07	Nov..	7.20	Mar...	6.73	May..	750	7.71	May..	979	7.82
9	April.	7.07	May..	7.18	May..	6.39	April.	721	7.41	Mar...	941	7.04
10	Jan..	6.49	June..	6.50	April.	6.29	June..	626	6.43	June..	815	6.10
11	May..	6.10	Feb...	6.13	Feb..	5.13	Feb...	573	5.94	Feb...	756	5.65
12	June..	5.85	Jan..	4.77	Jan..	3.91	Jan..	529	5.44	Jan..	602	4.50
	Unk..	.76	Unk..	.52	Unk..	.32	Unk..	57	.59	Unk..	30	.02
	Av. ...	8.33	Av. ...	8.33	Av. ...	8.33	Av. ...	510.66	8.33	Av. ...	1,114.25	8.33

* The number of deaths for April, 1868, is increased by one-fifth of the number published in the Second Registration Report, for the reason that the first five days of that month were not included in that Report. The number for the last twenty-five days was 486; 486 ÷ 5 = 97; 486 + 97 = 583—estimated number of deaths for April, 1868.

It is gratifying to note that the proportion returned in unknown quarter of the year is smaller than in any previous year.

In comparing the corresponding quarters of the two years 1871 and 1872, it may be seen that in 1872 the proportion of deaths in the first quarter is considerably smaller than in 1871; in the second quarter the proportion is nearly the same; in the third quarter it is much larger; and in the fourth quarter the proportion is nearly the same as in 1871.

Although the proportion of deaths by quarters of the year is different in the two years 1871 and 1872, as shown by Table I., it is not very different from the average of the several years since registration began. The most marked difference consists in a slightly greater than average proportion for the quarter ending with June, 1872.

Table II. exhibits the proportion of deaths returned for each month since 1867, and also by months the number for the years 1871 and 1872. There is a general similarity throughout all the years. In 1872, as in 1870 and 1871, the greatest number were returned for August and the least number for January. The excessive number of deaths in August consisted largely, as usual, of deaths of children under five years of age, and from diseases affecting the bowels and nervous system. It will be seen that the proportion in April is greater in 1872 than in any previous year. This fixes the month in which a large proportion of the unusual mortality in the second quarter previously referred to occurred. The specific diseases or causes of death to which this unusual mortality was due, may be learned further on in connection with deaths by specified causes by months, by sex, etc. Some of this unusual mortality was due to cerebro-spinal meningitis; and it will probably be found that the mortality from allied diseases was increased because of influences connected therewith.

By comparing the months of the census year ending June 1, 1870, with the corresponding months of other years, it has been found that the proportion of deaths returned for the several months was not generally increased in the census year; that is, the returns of the U. S. Marshals were probably not used to increase the registration returns of the supervisors or of the county clerks. The fact, however, still remains that during the quarter ending September, 1870, after the close of the census year, but including a large part of the time during which the census was being taken, the death-rate appears very much greater than during the corresponding quarter in other

years. As suggested on page 152, of last Report, "It may be true that at least some proportion of this increased mortality was only apparent, and that this appearance was the result of an increased thoroughness of the enumeration, due to increased attention attracted to the subject by the labors of census enumerators and other officials."

TABLE III.—Number and Percentage of Deaths of Males and Females from all Causes, as Returned, by Months. (Unknown Sex Excluded.)

YEAR AND MONTHS.	NUMBER.		PERCENTAGE.				Males to 100 Fem'ls.
	Males.	Fem'ls.	Males.	Fem'ls.	EXCESS.		
					Males.	Fem'ls.	
Year 1872.....	7,182	6,162	58.92	46.15	7.64	-----	116.6
January.....	816	284	52.67	47.38	5.34	-----	111.3
February.....	898	858	52.65	47.35	5.30	-----	111.2
March.....	510	429	54.31	45.69	8.62	-----	118.9
April.....	695	504	55.75	44.25	11.50	-----	126.0
May.....	505	472	51.69	48.31	3.38	-----	107.0
June.....	438	376	53.51	46.19	7.62	-----	116.5
July.....	533	509	51.33	48.61	2.77	-----	105.7
August.....	948	757	54.64	45.86	9.28	-----	120.5
September.....	898	758	54.03	45.91	8.17	-----	117.8
October.....	724	595	54.89	45.11	9.78	-----	121.7
November.....	567	467	53.80	46.20	7.60	-----	116.4
December.....	701	564	54.55	45.45	9.10	-----	120.0
Unknown Months.....	9	19	32.14	67.86	-----	35.72	47.4

Certain corrections were exhibited in last Report, and in "Statistics of Michigan, 1870," which lead to a belief that the number of deaths which probably occurred, and which would have been returned if the enumeration had been made in the months of occurrence of the deaths, is 21,101, instead of 13,371 as returned. The averages of deaths as returned, and as corrected to include those which probably occurred during the year 1872, including those in unknown month, are as follows:

Average No. of Deaths.	As Returned.	As Corrected.
Per quarter	3,342.75	5,275.25
Per month	1,114.25	1,758.42
Per week	257.13	405.79
Per day	36.53	57.65

Table III. shows that the deaths of males were in excess in every month of the year, the greatest excess being in April and the least in July. The large excess of males in April appears to be due to causes specified as: Inflammation of Brain, having an excess of 7; Casualty, of 21; Consumption, of 23; Diabetes, of 4; Pneumonia, of 11; Typhoid Pneumonia, of 8; Lung Disease, of 4; Spinal Fever, of 6; Spotted Fever, of 11; and Suicide, an excess of 6 males. The excess of males is not made to appear large through any deficiency in deaths of women in childbirth, as rather more than the average of such deaths were returned for April. The month of April seems to have been rather exceptional in the slightly greater number of deaths for which the cause was not stated; indicating, perhaps, that some influence was acting which was not as well understood as are the ordinary diseases. Among these deaths from unknown causes the excess of males in April was 26. From suicide there is usually an excess of males, but for April, 1872, a rather unusual number were returned. Possibly some connection may have existed between the prevalence of "Spotted Fever"—Cerebro-spinal Meningitis—and the increased number of suicides.

Records of the meteorological conditions for the entire State for that time are not accessible, but taking those at Lansing, which is near the center of the State, they show that for April, 1872, the temperature was not far either from the average for the year or from the average of past years for the same month. The relative humidity or per cent. of saturation of the air was considerably greater than usual for that month, being 74, whereas the average is only about 64 per cent. It was less, however, than the average for the year, and the absolute humidity was also less than the average for the year, although not unusual for April.

EXHIBIT A.—Deaths of each Sex, and Total Number, in Michigan during the Year 1872, by Months Equalized to 30.44 days each; Number of Deaths in each Month; Per Cent. of Deaths in each Month to Total Deaths during the Year; and Per Cent. and excess of Per Cent. of Deaths of each Sex to Total of both Sexes.

YEAR AND MONTHS.	NUMBER OF DEATHS AS EQUALIZED.				PER CENT. OF DEATHS IN EACH MONTH TO TOTAL DURING THE YEAR.				PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES, UNKNOWN EXCLUDED.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Males.	Females.	EXCESS.	
											Males.	Females.
Year 1872.....	18,832	7,161	6,144	27	100.00	100.00	100.00	100.00	58.82	46.17	7.65	.....
January.....	591	310	279	2	4.43	4.33	4.51	7.41	52.63	47.37	.....	5.26
February.....	794	418	376	.....	5.95	5.84	6.19	.....	52.64	47.36	.....	5.98
March.....	924	501	421	2	6.98	7.00	6.95	7.41	51.94	48.06	.....	8.68
April.....	1,156	644	511	1	8.67	8.99	8.89	8.70	55.76	44.94	.....	11.53
May.....	961	496	463	2	7.23	6.93	7.58	7.41	51.72	48.27	.....	8.45
June.....	927	444	393	1	6.90	6.90	6.92	8.70	53.75	46.25	.....	7.50
July.....	1,081	538	530	3	7.73	7.37	8.15	11.11	51.36	48.64	.....	9.73
August.....	1,707	931	773	8	13.80	13.00	12.43	11.11	54.64	45.36	.....	9.28
September.....	1,677	906	769	2	12.53	12.65	12.59	7.41	53.09	45.91	.....	8.18
October.....	1,297	711	584	2	9.73	9.93	9.91	7.41	53.90	45.10	.....	9.50
November.....	1,078	575	494	4	8.05	8.08	8.04	14.81	53.79	46.21	.....	7.58
December.....	1,264	683	573	3	9.43	9.47	9.83	11.11	54.56	45.44	.....	9.13
Unknown.....	80	9	19	2	.23	.18	.31	7.41	82.14	57.86	.....	35.73
Average	1,108.50	596.00	510.43	2.08	8.83	8.83	8.83	8.83	.....	.....	.....	.....

^a The average length of a month in an ordinary year is 30.44 days, but in a leap year it is slightly different. In order to compare the different years, however, the average length of a month is continued the same for each year. This results in the loss of a few in equalizing for a leap year,—the number lost in 1872 being 39.

^b Unknown month excluded.

EXHIBIT B.—Months arranged in Order by Number of Deaths,—those having the greatest number first,—in Massachusetts for the Years 1867 to 1872, inclusive; in Kentucky for the year 1853; in Michigan for the Census Year ending June 1, 1870, by the U. S. Census and by the State Registration Returns, for the Years 1869 to 1872 inclusive, as per Registration Returns, and for the Years 1870 to 1872, inclusive, Corrected for Omissions in Enumeration; also in Rhode Island for the Years 1871 and 1872.

Order.	MASSACHUSETTS.						KENTUCKY.		MICHIGAN, FOR THE CENSUS YEAR ENDING JUNE 1, 1870.		MICHIGAN, AS PER REGISTRATION RETURNS.				MICHIGAN, CORRECTED FOR OMISSIONS IN ENUMERATIONS.				RHODE ISLAND.	
	1867.	1868.	1869.	1870.	1871.	1872.	1853.	Returned by Census Marshals.	Registrat'n Returns.	1869.	1870.	1871.	1872.	1870.	1871.	1872.	1871.	1872.	1871.	1872.
1	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	August.	March.	September.	Sept.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	August.	Aug.	July.	July.
2	Sept.	Sept.	Sept.	July.	July.	July.	July.	May.	August.	Aug.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	July.	Sept.	Aug.	Aug.
3	Dec.	July.	Mar.	Sept.	Sept.	Sept.	September.	August.	October.	Oct.	Oct.	Dec.	Oct.	July.	Mar.	Apr.	Sept'ber.	Sept.	Sept.	Sept.
4	Jan.	Mar.	July.	Oct.	Apr.	Mar.	October.	September.	December.	Dec.	July.	Oct.	Dec.	Oct.	Dec.	Oct.	Decem'r.	Dec.	Dec.	Dec.
5	Mar.	Oct.	Oct.	Mar.	Jan.	Dec.	December.	April.	March.	Mar.	Nov.	Nov.	Apr.	Mar.	Oct.	Mar.	March.	Mar.	Mar.	Mar.
6	July.	Dec.	May.	Dec.	Mar.	Oct.	June.	February.	May.	Apr.	Dec.	July.	Nov.	June.	May.	May.	February.	Oct.	Oct.	Oct.
7	Nov.	Apr.	Apr.	Nov.	May.	Apr.	March.	October.	July.	July.	June.	Mar.	July.	Apr.	Apr.	July.	October.	Apr.	Apr.	Apr.
8	Oct.	Feb.	Dec.	Jan.	Oct.	May.	April.	December.	November.	Nov.	Mar.	May.	May.	Nov.	July.	Dec.	January.	Nov.	Nov.	Nov.
9	May.	Jan.	Jan.	May.	Dec.	Nov.	November.	January.	April.	May.	May.	Apr.	Mar.	May.	Feb.	Nov.	Nov'ber.	May.	May.	May.
10	Feb.	Nov.	Feb.	Apr.	Feb.	Feb.	February.	July.	June.	June.	Apr.	June.	June.	Dec.	Nov.	Feb.	April.	Feb.	Feb.	Feb.
11	Apr.	May.	Nov.	Feb.	Nov.	June.	May.	Nov.	February.	Feb.	Feb.	Feb.	Jan.	Feb.	Jan.	June.	May.	June.	June.	June.
12	June.	June.	June.	June.	June.	Jan.	January.	June.	January.	Jan.	Jan.	Jan.	Jan.	Jan.	June.	Jan.	June.	Jan.	Jan.	Jan.

Exhibit A contains data bearing upon the number and proportion of deaths by months, and the number and proportion of each sex among decedents by months in 1872. This Exhibit differs from Table III. in that in the Exhibit the months are made more nearly comparable by being equalized to uniform length. This does not particularly affect the relations of the sexes, and they have already been commented on. The relations of the several months are somewhat modified, compared with Table II. The modifications, however, are essential to the proper comparison of the deaths by months, as returned; and still further modification is believed to be necessary in order to compare by months the actual deaths which occurred. The results of both of these modifications are graphically exhibited in Diagram No. 3, page 169, as regards the deaths for the year 1872, and also for the years 1870 and 1871.

An examination of Exhibit B shows a general though not entire uniformity in the order of the months for the different years in the same State, and for the same years in the different States included in the Exhibit. August generally heads the list, and September closely follows. In Michigan the least number of deaths are generally returned for January, while in Massachusetts the least number seem to be returned for June. This transposition of January and June is shown also in Michigan for the year 1871, when corrected for omissions, and the least number is also returned for June of the census year, as shown by returns of census marshals. The census year began with June, consequently a longer time had elapsed between the occurrence and the enumeration of the deaths in June than of the deaths in any other month of the census year. The registration year begins with January, and undoubtedly this has the effect of reducing the number of deaths returned for that month, because the deaths are not placed upon record as soon as they occur, but are enumerated by the

supervisors in the spring following the year in which they occur.

In the last Report evidence was given upon which is based the belief that the omissions in enumerating the deaths as is now done are in direct proportion to the time elapsing between the deaths and their enumeration. The proportion of the deaths omitted in a given year because of the lapse of one year's time is found by comparing the deaths for December in one year, and the deaths for the next succeeding month, January of the following year, as returned by the registration officers, with the deaths for December and January of the census year ending June 1, 1870, as returned by the census marshals. For December and January the enumeration was made by the census marshals at the same time, consequently there was only the difference between these months due to the lapse of a single month, whereas in the enumeration of the deaths for these months by the supervisors an entire year elapses between the enumeration of the deaths in December, and of those in the succeeding month. We have no sure means of ascertaining whether the relation found between these months in the census year is absolutely the same in 1872 if enumerated in the same way, but in order to make the proposed correction we act upon such an assumption.

In making the correction for 1872 we make the following proportion:

CENSUS.		REGISTRATION.	
Dec. 1869.	Jan. 1870.	Dec. 1871.	Jan. 1872.

801 : 800 :: 1,029 : x , whence $x = 1,028$, which is the estimated number for January, 1872, if the enumeration for January had been made at the same time as for December. The number actually returned for January, 1872, is 602. $1,028 - 602 = 426 = 70.76$ per cent. of 602, the number returned. This 70.76 is the per cent. of loss occasioned by the delay of one year in enumerating, and the per cent. by

which the deaths must be increased to compensate for a delay of one year in enumerating. The enumeration of the deaths in each year being made in May of the succeeding year, it follows that the correction for one year's delay in enumeration should be applied to May, while for all previous months of the same year the corrections should be increased in proportion to the increase of time, and for all succeeding months of that year the corrections should be decreased in proportion to the decrease of time between the date of occurrence and the date of enumeration. We therefore use 70.76 as the per cent. of increase for May, as shown in Exhibit G, and for April the per cent. of increase is obtained by adding one-twelfth of 70.76 per cent. to the per cent. for May, and so on for the months previous to May; for June the per cent. of increase is found by subtracting one-twelfth of 70.76 per cent. from the per cent. for May, and so on for each month of 1872 following May. By this method we are enabled to obtain the line in Exhibit G entitled "Deaths if enumerated in months of occurrence," which shows the probable number of deaths in each month of the year 1872.

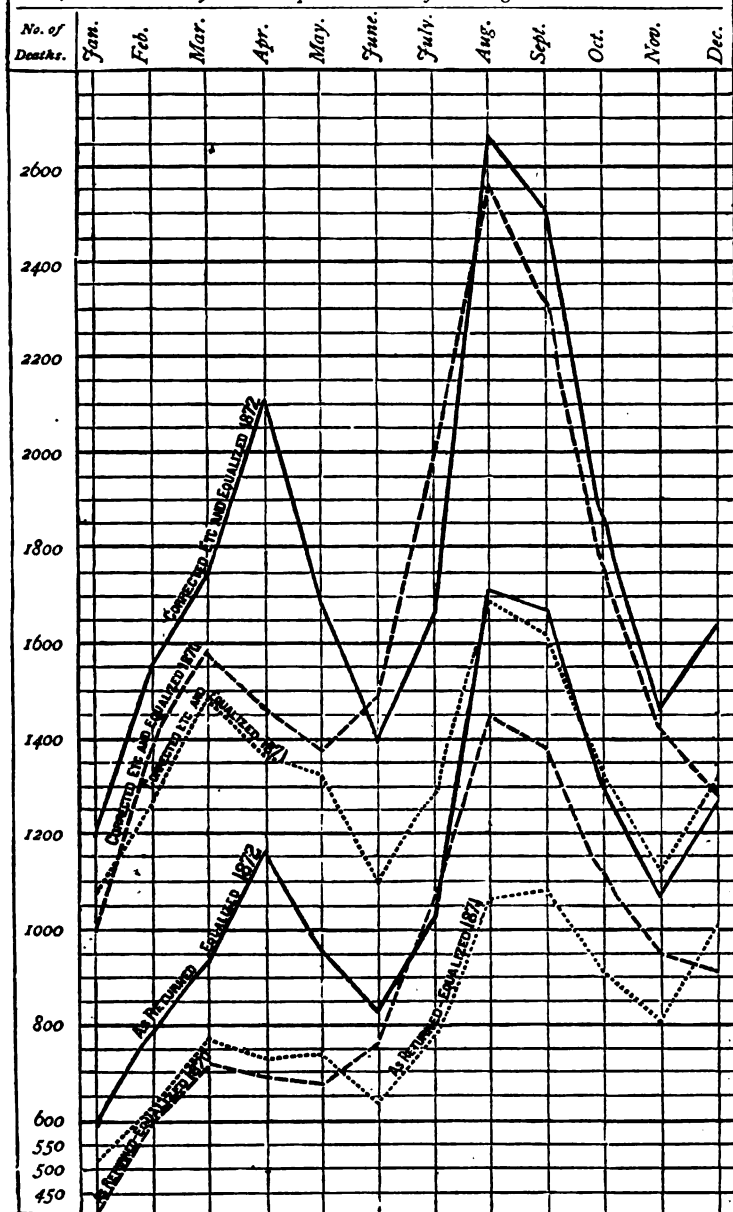
EXHIBIT G.—Deaths in Michigan during the Year 1872 as returned; as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the Year covered by the Returns; and the Deaths as thus Corrected and Equalized for the several months, Equalized for Months of a uniform length of 30.44 days; also indicating some of the steps by which these results have been reached.

	Total.	YEAR 1872.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by registration officers.....	13,311	602	756	941	1,140	979	815	1,050	1,735	1,653	1,921	1,058	1,988
Per cent. of deaths to be added for correction for time elapsing before enumeration.....	—	94.85	88.45	82.56	76.66	70.76	61.87	55.97	53.07	47.18	41.28	35.38	29.49
Number of deaths to be added for above correction.....	7,780	568	669	777	874	698	529	619	922	780	545	374	380
Deaths if enumerated in months of occurrence.....	21,071	1,170	1,425	1,718	2,014	1,672	1,344	1,669	2,660	2,433	1,966	1,432	1,668
Per cent. of deaths to be added to equalize them to population at close of year.....	—	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.85
Deaths to be added to equalize them to population at close of year.....	460	49	55	60	64	47	38	35	47	34	29	10	6
Deaths as corrected, equalized to population at close of year.....	21,581	1,219	1,480	1,773	2,078	1,719	1,377	1,704	2,707	2,467	1,995	1,442	1,674
Days and 100ths by which the months should be increased or diminished to equalize them to months of uniform length.....	—	—56	+1.44	—56	+44	—56	+44	—56	—56	+44	—56	+44	—56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length.....	—49	—22	+73	—82	+80	—81	+20	—81	—49	+80	—84	+21	—80
Deaths, corrected and equalized, equalized to months of uniform length.....	21,483	1,197	1,558	1,746	2,108	1,688	1,397	1,678	2,659	2,508	1,974	1,463	1,644

* Deaths in unknown month (80) excluded.

DIAGRAM NO. 3.

Deaths in Michigan during each of the years 1870, 1871 and 1872, as returned, and as corrected for omissions and equalized for increase of population; in each case by months equalized to uniform length.



Designed by Henry B. Baker.

Diagram No. 3 exhibits graphically the relations of the several years 1870, 1871, and 1872 to each other, the relations of the several months in each year to each other and to the months in the other years, etc., etc., concerning the deaths in Michigan by months equalized to uniform length; and also allows a comparison of these with the deaths by months corrected for omissions in enumeration. The line representing the deaths "As returned equalized, 1872," is the same as the first column in exhibit A; and the similar lines for the other years are from similar Exhibits in past Reports. The line "Corrected, etc., and equalized," represents the tenth line in Exhibit G. One of the most noticeable peculiarities in the diagram is the unusually large number of deaths in April, 1872, and the gradual approach thereto in March, and decline therefrom in May. For some remarks concerning the excess of male decedents, and the causes specified for the unusual deaths of males in April, see page 162 of this Report.

TABLE IV.—*Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1872; also the Excess of Persons of each Sex.*

AGES IN YEARS AND PERIODS.	NUMBER OF DEATHS.				PER CENT. OF DEATHS AT EACH AGE TO TOTAL AT ALL AGES.				PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.				EXCESS OF THE SEXES BY NUMBER.		Males to 100 Fem's.
	Total.	Males.	Fem's.	Child.	Total.	Males.	Fem's.	Males.	Fem's.	Excess.		Males.	Fem's.		
										Males.	Fem's.				
All Ages.....	13,371	7,182	6,163	27	100.00	100.00	100.00	53.82	46.17	7.65	-----	1,020	-----	116.55	
Under 1.....	3,275	1,826	1,428	21	24.49	25.42	23.17	56.12	43.88	12.24	-----	898	-----	127.87	
1 to 2.....	1,050	579	471	---	7.85	8.06	7.64	55.14	44.86	10.28	-----	108	-----	122.98	
2 to 3.....	582	310	272	---	4.35	4.32	4.41	53.26	46.74	6.52	-----	38	-----	118.97	
3 to 4.....	369	180	189	---	2.76	2.51	3.07	43.73	51.27	2.44	-----	---	9	95.24	
4 to 5.....	276	153	123	---	2.06	2.13	2.00	55.43	44.57	10.86	-----	30	-----	124.39	
Under 5.....	5,532	3,048	2,483	21	41.52	42.44	40.80	55.11	44.89	10.22	-----	565	-----	122.75	
5 to 10.....	754	376	377	1	5.64	5.37	6.12	40.94	59.06	-----	.12	---	1	99.73	
10 to 15.....	447	212	235	---	3.34	2.95	3.81	47.43	52.57	-----	5.14	---	23	90.21	
15 to 20.....	593	289	304	---	3.99	3.33	4.77	44.84	55.16	-----	10.33	---	55	80.61	
20 to 25.....	683	309	374	---	5.11	4.30	6.07	45.24	54.76	-----	9.92	---	65	82.62	
25 to 30.....	548	250	298	---	4.10	3.46	4.94	45.63	54.36	-----	8.74	---	48	83.89	
30 to 35.....	453	204	248	1	3.38	2.81	4.02	45.13	54.87	-----	9.71	---	44	89.20	

DEATHS BY SEX AND PERIODS OF AGE.

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35 to 40.....	465	990	945	3.46	3.06	3.96	47.81	52.09	5.88	25	80.60
40 to 45.....	410	911	199	3.07	2.94	8.23	51.46	46.54	2.93	13	106.08
45 to 50.....	480	966	164	3.23	3.70	2.66	61.86	38.14	28.72	109	163.20
50 to 55.....	446	274	172	3.84	3.61	2.79	61.43	38.57	22.56	102	159.80
55 to 60.....	374	293	136	2.79	3.31	2.21	63.64	36.36	27.23	102	175.00
60 to 65.....	484	272	162	3.25	3.79	2.63	62.67	37.33	25.84	110	167.90
65 to 70.....	493	258	175	3.24	3.59	2.83	59.58	40.42	19.16	88	147.43
70 to 75.....	441	256	185	3.80	3.56	3.00	58.05	41.95	16.10	71	138.38
75 to 80.....	281	159	123	2.10	2.21	1.96	56.58	43.42	18.16	37	130.38
80 to 85.....	211	120	91	1.53	1.67	1.46	56.57	43.13	18.74	29	131.87
85 to 90.....	115	72	43	.86	1.00	.70	63.61	37.39	25.22	29	167.44
90 to 95.....	84	18	16	.25	.25	.26	52.94	47.06	5.83	2	112.50
95 to 100.....	8	2	6	.07	.03	.10	25.00	75.00	50.00	4	33.33
100 and over.....	4	2	2	.03	.03	.03	50.00	50.00	-----	-----	100.00
Unknown ages.....	315	176	135	2.36	2.45	2.17	56.59	48.41	13.13	41	130.37

EXHIBIT 1.—*The Relation of the Deaths at Different Periods of Age to Deaths at All Ages, by months; and, for the same periods of age, the Relation of the Deaths in Each Month to the Deaths in the Year 1872, according to the Returns.*

	Year 1872. ^a	MONTHS, 1872.												Av. M th .
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
All Ages.....	18,841	602	756	941	1,140	979	815	1,050	1,788	1,623	1,821	1,058	1,288	1,112
{ Number	3,266	116	142	203	183	194	177	884	683	450	304	191	284	272
{ Per cent. of All Ages.....	24.48	19.27	18.78	21.57	16.49	19.82	21.72	86.57	38.42	27.22	28.01	12.05	22.05	28.41
{ Per cent. of Deaths, 1872.....	100.00	3.55	4.35	6.21	5.76	5.94	5.42	11.76	19.88	13.78	9.31	5.85	8.60	8.88
Under 1.....	5,541	222	265	358	350	387	298	549	1,027	830	502	839	464	462
{ Number	41.58	36.88	35.05	38.05	30.70	34.42	36.56	52.29	50.00	50.21	33.00	32.04	36.02	39.94
{ Per cent. of All Ages.....	100.00	4.01	4.78	6.46	6.22	6.08	5.38	9.91	19.58	14.98	9.06	6.12	8.37	8.88
{ Per cent. of Deaths, 1872.....	758	47	55	59	80	66	41	49	75	82	76	54	69	63
5 to 10.....	5.64	7.81	7.28	6.27	7.02	6.74	5.08	4.57	4.82	4.96	5.75	5.10	5.86	5.96
{ Number	100.00	6.24	7.80	7.84	10.62	8.77	5.44	6.51	9.96	10.89	10.09	7.17	9.16	8.83
{ Per cent. of Deaths, 1872.....	978	41	54	74	100	96	66	60	94	106	98	88	90	93
10 to 20.....	7.84	6.81	7.14	7.86	8.77	9.81	8.84	6.57	5.41	6.41	7.43	8.82	6.99	7.49
{ Number	100.00	4.19	5.63	7.57	10.22	9.83	6.95	7.06	9.61	10.84	10.03	9.00	9.20	8.88
{ Per cent. of Deaths, 1872.....														

20 to 50	Number	2,968	146	182	217	220	228	238	196	249	317	307	294	319	249
	Per cent. of All Ages	22.86	24.25	24.07	28.06	25.44	24.81	27.93	15.67	14.32	19.18	28.24	27.79	24.77	22.09
	Per cent. of Deaths, 1873	100.00	4.89	6.10	7.21	9.73	7.95	7.64	6.57	8.35	10.63	10.29	9.66	10.69	8.33
50 and over	Number	2,778	182	158	209	224	220	163	165	270	286	307	254	300	292
	Per cent. of All Ages	30.82	21.83	24.87	25.21	24.91	23.47	20.00	15.71	15.54	17.30	23.24	24.01	23.29	21.29
	Per cent. of Deaths, 1873	100.00	4.75	6.17	7.52	10.22	7.92	5.87	5.94	9.72	10.30	11.05	9.14	10.80	8.83
Unknown Ages	Number	808	14	12	24	86	22	17	23	28	32	31	29	46	26
	Per cent. of All Ages	2.91	2.83	1.59	2.55	8.16	2.25	2.09	2.10	1.82	1.94	2.85	2.74	2.57	2.83
	Per cent. of Deaths, 1873	100.00	4.53	8.90	7.79	11.69	7.14	5.92	7.14	7.47	10.39	10.06	9.42	14.98	8.33

* Excluding 30 in Unknown month.

By Table IV. it may be seen that the deaths of children under five years of age bear the large proportion of 41.52 per cent. of the total deaths returned for 1872. This, however, is not an unusual proportion, and is even smaller than in some cities in this country, but it indicates that in any attempt of sanitarians to reduce the death-rate there is a wide field for labor in connection with those diseases which prove so fatal to the children. Among such diseases, as may appear further on, Scarlet Fever is one in which grand results in the saving of human lives seem to be promised as the probable reward of thorough action for its prevention and restriction.

As usual in this State, the deaths of males exceed those of females; and also as usual, the deaths of females exceed those of males at the ages between five and forty years.

Exhibit 1 is a new one, planned to show the time of year of greatest danger to life at the different periods of age. It needs to be stated at the outset that the relations of the several months would be slightly different if the deaths were corrected for omissions in enumeration. About how they would be modified can be best estimated by studying Diagram No. 3. Notwithstanding the modification which it needs, and the omissions which seem to render it necessary, it is believed that the most important general truths which the Exhibit makes apparent are so strongly founded in reality that they would still remain, though perhaps slightly modified, if the statistics were perfect.

By Table IV. it appears that about one-fourth of all the deaths in 1872 were of children under one year of age. By Exhibit 1 it appears that the month of greatest danger to such children was August, in which month nearly one-fifth of all the deaths of these children occurred. September and July were also fatal months, although to a less number of children. Nearly one-half of all the deaths during 1872 of children under one year of age were returned as having occurred in the three months of July, August, and September. The number

of such deaths returned as having occurred in August were more than five times the number returned for January. For purposes of prevention, a great point is gained when a danger is once fully known and appreciated. One object in presenting this evidence is to enable those who are sufficiently intelligent on such subjects to take advantage of the knowledge, and act more intelligently for the preservation of their offspring.

By Exhibit 1 it appears that the greatest danger to children under five years of age in 1872 was also in August. It is worthy of remark that the danger in July appears to have been less, and in September greater, than to children aged under one year. It is possible that the real time of exposure to danger was the same for both periods of age, but that the older children did not succumb to the influences until after a longer time. Whether this is or is not the correct explanation, the fact may also be noted that the greatest number of deaths of those aged five to ten years was postponed to, or at least occurred, a month later than of those aged under five years, September being the month of greatest fatality, and October being next for that time of year; but at this period of age (five to ten), the deaths in April came next in number below the deaths for September. Among children under five years of age we find an exception to the unusual mortality in April, 1872, which is apparent at all other periods of life that are tabulated in Exhibit 1. Many other interesting facts appear in the Exhibit, but more precise knowledge of the relations of age to months in connection with deaths may be gained from a study of the tables V. and VI., which follow it. Further on, the diseases are also studied by months; and as regards some of the prominent causes of death they are studied in connection with the relations of age of decedents and months of occurrence.

TABLE V.—*Exhibiting by Sex and by Age in Periods of Years the Number of Persons Returned as having Died in Michigan during the Year and in each Month of the Year 1872.*

AGES IN PERIODS OF YEARS.	Sex.	Year 1872.	MONTHS, 1872.												
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
All Ages.....	Total.....	13,371	602	756	941	1,140	979	815	1,050	1,733	1,653	1,321	1,053	1,288	80
	Males.....	7,153	316	398	510	635	505	435	533	948	893	724	567	701	9
	Females.....	6,163	284	358	429	504	472	376	509	797	758	595	487	584	19
	Unknown.....	27	2	.....	2	1	2	1	3	3	2	2	4	3	2
All under 1.....	Total.....	3,275	116	142	203	183	194	177	334	633	450	304	191	284	9
	Males.....	1,826	59	80	120	103	107	104	219	344	233	175	101	133	3
	Females.....	1,433	55	62	81	79	86	73	164	286	195	123	85	123	6
	Unknown.....	21	2	.....	2	1	1	1	1	3	2	1	4	3	.....
All under 5.....	Total.....	5,553	292	285	363	350	337	293	549	1,027	830	502	339	461	11
	Males.....	3,043	115	140	193	200	189	171	303	569	456	273	180	259	3
	Females.....	2,483	105	125	153	149	154	126	245	455	373	229	155	202	8
	Unknown.....	21	2	.....	2	1	1	1	1	3	2	1	4	3	.....

DEATHS BY PERIOD OF AGE, BY SEX, BY MONTHS. 179

5 to 10.....	Total.....	754	47	55	59	80	66	41	49	75	83	76	54	69	1
	Males.....	376	23	33	31	46	30	23	27	40	38	33	25	29	---
	Females.....	377	24	23	28	34	36	19	23	35	44	44	29	40	---
	Unknown.....	1	---	---	---	---	---	---	---	---	---	---	---	---	1
10 to 15.....	Total.....	447	24	25	32	47	50	30	30	44	54	35	34	40	3
	Males.....	212	10	10	15	24	27	16	10	26	27	16	13	16	2
	Females.....	235	14	15	17	23	23	14	20	18	27	19	21	24	---
	Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15 to 20.....	Total.....	533	17	29	43	53	46	36	39	50	52	63	54	50	---
	Males.....	329	7	12	19	26	22	17	12	20	31	33	25	26	---
	Females.....	394	10	17	23	27	24	21	27	30	31	31	29	24	---
	Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20 to 25.....	Total.....	683	26	33	43	65	59	55	43	48	64	90	72	80	1
	Males.....	309	13	15	19	28	20	17	15	24	31	47	33	41	1
	Females.....	374	13	23	24	37	39	38	27	24	33	43	34	39	---
	Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25 to 30.....	Total.....	543	30	33	37	55	36	40	46	50	50	52	52	65	2
	Males.....	250	13	13	20	20	17	16	13	26	19	31	33	33	---
	Females.....	298	17	21	17	35	19	24	34	24	31	21	20	33	2
	Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30 to 35.....	Total.....	453	23	23	33	33	37	33	32	39	43	40	54	43	1
	Males.....	204	7	13	18	20	16	15	9	17	26	13	20	25	1
	Females.....	243	21	10	20	13	20	13	23	22	22	22	34	23	---
	Unknown.....	1	---	---	---	1	---	---	---	---	---	---	---	---	---

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TABLE V.—CONTINUED.—Deaths by Periods of Age, by Sex, and by Months.

AGES IN PERIODS OF YEARS.	Sex.	Year 1872.	MONTHS, 1873.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec. Unk.
35 to 40.....	Total	465	23	33	18	57	43	39	21	36	48	42	49	50 1
	Males	230	8	12	8	33	22	19	11	14	21	21	25	26
	Females	245	15	26	10	24	21	20	10	22	27	21	24	24 1
40 to 45.....	Total	410	18	14	41	36	36	29	29	33	51	43	33	47
	Males	211	9	9	23	15	15	13	12	17	32	25	17	19
	Females	199	9	5	18	21	21	11	17	16	19	13	16	28
45 to 50.....	Total	430	21	27	40	44	27	32	26	43	53	40	34	29 1
	Males	265	14	30	21	30	19	20	16	19	36	20	20	21
	Females	164	7	7	19	14	8	12	10	24	20	20	14	8 1
50 to 55.....	Total	446	25	28	39	44	37	22	33	40	47	33	35	43
	Males	274	19	14	23	29	22	13	22	23	28	32	23	26
	Females	172	6	14	16	15	15	9	11	17	19	21	12	17
55 to 60.....	Total	374	23	23	26	41	23	27	21	30	34	54	32	35
	Males	233	16	6	13	29	13	19	15	16	23	42	22	24
	Females	136	7	17	13	12	10	8	6	14	11	12	10	11

DEATHS BY PERIOD OF AGE, BY SEX, BY MONTHS. 181

60 to 65.....	Total.....	434	16	24	23	83	35	39	23	31	43	44	40	49	47	-----
	Males.....	273	10	23	30	19	19	23	16	14	25	30	24	31	29	-----
	Females.....	161	6	12	8	16	16	17	12	7	18	14	16	16	18	-----
65 to 70.....	Total.....	433	19	24	31	54	32	24	24	20	35	43	51	55	45	-----
	Males.....	238	14	14	16	31	21	16	16	11	25	25	27	33	25	-----
	Females.....	175	5	10	15	23	11	8	9	9	10	18	24	22	20	-----
70 to 75.....	Total.....	441	21	29	35	49	30	29	29	27	43	54	41	29	49	-----
	Males.....	256	10	20	14	29	19	17	17	16	33	29	26	16	27	-----
	Females.....	185	11	9	21	20	11	12	12	11	15	25	15	18	22	-----
75 to 80.....	Total.....	231	16	25	12	34	30	21	21	18	33	29	20	18	29	1
	Males.....	159	13	14	6	13	20	11	11	7	18	13	14	9	15	1
	Females.....	122	3	11	6	21	10	10	10	6	15	11	6	9	14	-----
80 to 85.....	Total.....	211	5	13	15	15	13	6	6	20	22	24	29	20	27	2
	Males.....	120	4	6	10	9	4	4	4	9	13	13	17	13	13	1
	Females.....	91	1	7	5	6	9	2	2	11	9	11	12	8	9	1
85 to 90.....	Total.....	115	4	8	10	9	8	6	6	7	10	7	13	14	19	-----
	Males.....	73	2	7	7	4	3	5	5	3	9	6	9	6	11	-----
	Females.....	42	2	1	3	5	5	1	1	4	1	1	4	8	8	-----

TABLE V.—CONTINUED.—Deaths by Periods of Age, by Sex, and by Months.

AGES IN PERIODS OF YEARS.		Sex.	Year 1872.	MONTHS, 1872.											
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
90 to 95.....	Total.....	34	1	4	2	1	2	.....	2	6	3	6	1	6	.....
	Males.....	18	1	2	1	.....	.....	.....	1	1	2	4	1	5	.....
	Females.....	16	.....	2	1	1	2	.....	1	5	1	2	.....	1	.....
95 to 100.....	Total.....	8	1	.....	1	.....	1	.....	1	3	1	.....	.....	.....	.....
	Males.....	2	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
	Females.....	6	1	.....	1	.....	1	.....	.....	2	1	.....	.....	.....	.....
100 and over.....	Total.....	4	1	.....	.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....
	Males.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Unknown.....	Total.....	315	14	12	24	36	23	17	22	23	32	31	20	46	7
	Males.....	176	8	8	18	23	11	6	12	12	12	15	19	27	.....
	Females.....	135	6	4	6	8	11	11	8	11	20	15	10	19	6
	Unknown.....	4	.....	.....	.....	.....	.....	.....	2	.....	.....	1	.....	.....	1

TABLE VI.—*Exhibiting, by Sex and by Months, the Number Returned as having Died in Michigan during the Year 1872 at each and every Age; the Age stated in Twelfths of a Year for those under One, and in Years for those over One Year of Age.*

AGES IN YEARS AND TWELFTHS OF A YEAR.	SEX.	Year 1872.	MONTHS, 1872.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Under 1-12.*	Total	1,074	56	64	98	76	77	68	102	182	110	57	72	140
	Males.....	615	27	36	54	45	44	36	65	77	65	54	85	77
	Females..	480	27	28	37	30	32	26	36	58	48	32	33	60
	Unknown	20	2	—	2	1	1	1	1	2	2	1	4	8
1-12.	Total	324	4	10	17	16	21	15	26	68	52	36	23	34
	Males.....	173	2	6	8	8	10	10	15	36	29	18	12	19
	Females..	151	2	4	9	8	11	5	11	32	23	18	11	15
2-12.	Total	251	10	7	17	11	10	15	35	56	31	25	12	20
	Males.....	125	2	2	11	7	8	6	20	27	13	13	7	13
	Females..	126	8	5	6	4	7	9	15	29	18	12	5	7
3-12.	Total	265	9	8	11	8	15	15	42	57	40	33	18	14
	Males.....	138	6	2	6	4	5	9	27	33	17	14	8	7
	Females..	127	3	6	5	4	10	6	15	24	23	19	5	7
4-12.	Total	200	5	4	7	4	12	9	31	47	34	25	11	11
	Males.....	118	5	3	5	3	8	5	13	22	26	15	7	6
	Females..	81	—	1	2	1	4	4	18	24	8	10	4	5
	Unknown	1	—	—	—	—	—	—	—	1	—	—	—	—
5-12.	Total	208	5	11	13	10	9	5	30	53	32	20	8	12
	Males.....	111	2	8	6	4	4	4	15	25	18	12	5	8
	Females..	97	3	3	7	6	5	1	15	28	14	8	3	4
6-12.	Total	201	6	10	7	17	4	12	23	44	37	13	8	19
	Males.....	107	3	6	4	13	4	7	12	25	18	6	4	4
	Females..	94	3	4	3	4	—	5	11	19	19	7	4	15

* Stillbirths included. See table of specified causes of death.

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS AND TWELFTHS OF A YEAR.	SEX.	Year 1872.	MONTHS, 1872.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
7-12.	Total.....	182	2	6	6	8	9	9	15	34	17	11	9	5	1
	Males.....	79	1	3	4	4	5	6	9	19	11	7	5	4	1
	Females..	58	1	3	2	4	4	3	6	15	6	4	4	1	..
8-12.	Total.....	153	3	5	9	14	10	11	16	38	26	12	3	6	..
	Males.....	85	1	3	6	5	5	6	12	22	11	8	2	2	..
	Females..	65	2	2	3	9	5	5	4	16	15	4	1	4	..
9-12.	Total.....	154	4	4	11	10	10	5	14	39	24	14	10	9	..
	Males.....	91	2	3	6	6	8	1	6	21	16	9	7	6	..
	Females..	63	2	1	5	4	2	4	8	18	8	5	3	3	..
10-12.	Total.....	152	6	7	6	8	7	7	21	36	15	13	13	7	1
	Males.....	91	4	5	5	5	4	5	12	20	12	8	6	5	..
	Females..	61	4	2	1	3	3	2	9	16	6	5	7	2	1
11-12.	Total.....	161	4	6	6	6	10	11	29	29	29	15	9	7	..
	Males.....	98	4	3	5	4	7	7	18	17	17	11	3	2	..
	Females..	68	....	3	1	2	3	4	16	12	12	4	6	5	..
1.	Total.....	1,050	40	43	61	57	62	42	82	220	217	66	65	73	2
	Males.....	579	24	19	34	33	40	22	42	121	130	39	34	46	..
	Females..	471	16	24	27	19	22	20	40	99	97	47	31	27	2
2.	Total.....	582	22	30	49	44	33	43	40	99	56	53	36	47	..
	Males.....	310	9	15	25	23	13	19	19	60	46	29	22	30	..
	Females..	272	13	15	24	21	20	24	21	39	40	24	14	17	..
3.	Total.....	369	23	29	26	40	25	13	22	40	43	34	26	41	..
	Males.....	190	13	13	12	20	10	11	11	22	21	18	6	19	..
	Females..	189	13	16	14	20	15	4	11	18	22	16	13	22	..
4.	Total.....	276	16	21	19	21	23	21	21	35	34	25	21	19	..
	Males.....	153	8	13	7	11	12	15	12	22	16	11	15	11	..
	Females..	123	8	8	12	10	11	6	9	13	18	14	6	8	..

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.		SEX.	Year 1872.	MONTHS, 1872.												
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
5.	Total.....		210	15	9	17	27	17	18	9	28	27	23	15	15	
	Males.....		92	6	7	8	16	7	7	4	9	10	10	6	2	
	Females..		118	9	2	9	11	10	6	5	14	17	13	9	13	
6.	Total.....		188	13	16	9	16	16	10	11	23	22	21	12	18	1
	Males.....		103	9	8	7	12	6	7	10	12	11	7	6	9	
	Females..		84	4	8	2	4	10	3	1	11	11	14	6	10	
	Unknown		1													1
7.	Total.....		150	8	13	13	14	13	6	10	14	13	17	14	10	
	Males.....		82	3	13	6	8	5	3	6	10	7	7	7	7	
	Females..		68	5	5	7	6	8	3	4	4	6	10	7	3	
8.	Total.....		118	6	9	6	8	11	6	13	9	12	10	7	16	
	Males.....		57	3	4	4	4	6	3	5	5	6	5	2	10	
	Females..		56	3	5	2	4	5	3	8	4	6	5	5	6	
9.	Total.....		98	5	3	14	15	9	6	6	6	8	5	6	10	
	Males.....		42	2	1	6	6	6	2	2	4	4	3	4	2	
	Females..		51	3	2	8	9	3	4	4	2	4	2	2	8	
10.	Total.....		89	8	5	6	9	9	4	7	11	12	5	8	5	
	Males.....		44	2	1	3	6	4	3	4	8	4	1	5	3	
	Females..		45	6	4	3	3	5	1	3	3	3	4	3	2	
11.	Total.....		82	2	4	8	12	8	8	9	9	7	4	5	6	
	Males.....		29		1	3	3	4	4	2	4	2	1	1	4	
	Females..		53	2	3	5	9	4	4	7	5	5	3	4	2	
12.	Total.....		69	4	1	6	5	11	3	3	6	12	9	3	5	1
	Males.....		42	2		4	3	9	2	1	4	6	5	1	4	1
	Females..		27	2	1	2	2	2	1	2	2	6	4	2	1	
13.	Total.....		89	5	5	6	12	9	8	4	4	11	5	7	12	1
	Males.....		42	4	2	3	6	4	4	1	1	7	3	3	3	1
	Females..		47	1	3	3	6	5	4	3	3	4	2	4	9	

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.		SEX.	Year 1872.	MONTHS, 1872.											
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
14.	Total	118	5	10	6	9	13	7	7	14	12	12	11	12	..
	Males.....	55	2	6	2	6	6	3	2	9	8	6	3	2	..
	Females..	63	3	4	4	3	7	4	5	5	4	6	8	10	..
15.	Total	92	5	5	4	11	14	7	8	8	10	7	6	7	..
	Males.....	35	---	1	2	6	8	4	3	2	2	3	2	2	..
	Females..	57	5	4	2	5	6	3	5	6	8	4	4	5	..
16.	Total	91	6	5	9	8	5	6	9	8	7	12	9	7	..
	Males.....	39	3	3	6	3	2	4	3	4	1	5	3	2	..
	Females..	52	3	2	3	5	3	2	6	4	6	7	6	5	..
17.	Total	115	1	6	10	13	10	13	8	11	8	17	9	9	..
	Males.....	53	1	2	4	7	5	4	1	5	6	11	5	7	..
	Females..	57	---	4	6	6	5	9	7	6	2	6	4	2	..
18.	Total	114	2	5	10	11	7	5	7	8	14	12	16	17	..
	Males.....	56	1	3	3	6	3	3	3	3	6	6	9	10	..
	Females..	58	1	2	7	5	4	2	4	5	8	6	7	7	..
19.	Total	121	3	8	9	10	10	7	7	15	13	15	14	10	..
	Males.....	51	2	3	4	4	4	2	2	6	6	7	6	5	..
	Females..	70	1	5	5	6	6	5	5	9	7	8	8	5	..
20.	Total	188	3	12	8	17	10	10	12	11	11	17	7	19	1
	Males.....	53	1	4	4	5	3	2	5	7	6	9	4	7	1
	Females..	80	2	8	4	12	7	8	7	4	5	8	3	12	..
21.	Total	184	4	3	5	9	13	8	11	11	19	21	17	13	..
	Males.....	71	3	3	3	5	5	3	5	5	11	13	11	4	..
	Females..	63	1	---	2	4	8	5	6	6	8	8	6	9	..
22.	Total	155	6	6	13	8	15	17	5	13	15	22	19	16	..
	Males.....	75	3	3	8	6	5	6	2	6	6	11	10	9	..
	Females..	80	3	3	5	2	10	11	3	7	9	11	9	7	..

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	Year 1872.	MONTHS, 1872.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
22.	Total	114	10	6	8	12	8	9	4	5	8	15	12	17	..
	Males.....	49	4	---	2	3	3	2	1	4	3	8	6	13	..
	Females..	65	6	6	6	9	5	7	3	1	5	7	6	4	..
24.	Total	142	8	11	9	19	13	11	10	8	11	15	17	15	..
	Males.....	56	2	5	2	9	4	4	2	2	5	6	7	8	..
	Females..	86	1	6	7	10	9	7	8	6	6	9	10	7	..
25.	Total	112	4	7	8	14	5	5	10	8	12	10	18	15	1
	Males.....	52	---	1	4	8	8	2	1	4	7	5	9	8	..
	Females..	60	4	6	4	6	2	3	9	4	5	5	4	7	2
26.	Total	126	8	12	12	10	10	5	9	13	10	13	9	13	1
	Males.....	57	3	5	5	2	4	3	1	3	4	3	7	7	..
	Females..	69	5	7	7	8	6	2	8	5	6	5	2	6	1
27.	Total	108	5	7	5	9	8	11	8	11	13	10	8	13	..
	Males.....	45	4	2	4	1	5	2	3	4	4	4	5	7	..
	Females..	63	1	5	1	8	3	9	5	7	9	6	3	6	..
28.	Total	122	10	3	9	11	8	11	11	12	8	12	14	13	..
	Males.....	58	5	1	6	5	4	4	3	6	1	9	8	6	..
	Females..	64	5	2	3	6	4	7	8	6	7	3	6	7	..
29.	Total	80	3	3	3	11	5	6	8	6	7	7	8	11	..
	Males.....	38	1	3	1	4	1	5	4	4	3	5	3	4	..
	Females..	42	2	---	2	7	4	1	4	2	4	2	5	7	..
30.	Total	97	3	5	6	5	13	6	6	8	11	9	17	8	..
	Males.....	42	---	4	3	1	6	2	2	3	6	4	5	6	..
	Females..	55	3	1	3	4	7	4	4	5	5	5	12	2	..
31.	Total	70	4	3	6	6	5	5	2	3	9	8	8	11	..
	Males.....	30	---	2	1	4	3	3	---	2	6	3	3	3	..
	Females..	40	4	1	5	2	2	2	2	1	3	5	5	8	..

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	Year 1872.	MONTHS, 1872.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
32.	Total	96	7	8	10	4	5	8	8	9	9	12	11	8	..
	Males	41	1	2	6	2	1	5	3	2	3	7	5	4	..
	Females ..	55	6	6	4	2	3	3	5	7	6	5	6	4	..
	Unknown ..	1	---	---	---	---	1	---	---	---	---	---	---	---	..
33.	Total	104	8	8	10	12	9	8	5	9	6	7	10	14	1
	Males	54	3	3	6	7	5	2	2	6	7	1	5	6	1
	Females ..	50	5	---	4	5	4	6	3	3	1	6	5	8	..
34.	Total	83	6	8	6	6	5	6	11	10	11	4	8	7	..
	Males	37	3	1	2	6	1	3	2	4	4	3	2	6	..
	Females ..	46	3	2	4	---	4	3	9	6	7	1	6	1	..
35.	Total	116	10	6	2	13	13	12	3	11	9	9	10	16	..
	Males	64	3	3	2	8	8	7	2	5	6	5	6	9	..
	Females ..	52	7	5	---	5	5	5	1	6	3	4	4	7	..
36.	Total	82	4	10	6	11	8	7	4	4	9	6	8	4	1
	Males	33	3	4	2	7	3	3	1	2	1	2	3	2	..
	Females ..	49	1	6	4	4	5	4	3	2	8	4	5	2	1
37.	Total	84	3	4	3	10	7	8	6	6	11	8	6	10	..
	Males	37	---	1	1	6	2	5	3	1	5	4	5	4	..
	Females ..	47	3	3	2	4	5	3	3	5	6	4	3	6	..
38.	Total	98	2	7	1	17	8	9	4	7	10	11	13	9	..
	Males	46	---	2	1	9	5	3	3	3	4	5	7	4	..
	Females ..	52	2	5	---	8	3	6	1	4	6	6	6	5	..
39.	Total	85	4	9	6	6	7	3	4	8	9	6	10	11	..
	Males	40	2	2	2	3	4	1	2	3	5	5	4	7	..
	Females ..	45	2	7	4	3	3	2	2	5	4	3	6	4	..
40.	Total	106	6	2	8	11	4	9	8	9	15	13	8	13	..
	Males	54	3	2	4	5	2	5	3	5	9	6	5	5	..
	Females ..	52	3	---	4	6	2	4	5	4	6	7	3	8	..

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.		SEX.	Year 1872.	MONTHS, 1872.												
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
41.	Total.....		67	1	1	8	7	13	7	5	5	3	6	3	6	
	Males.....		32	1	---	5	2	6	5	3	2	2	4	1	1	
	Females..		35	---	1	3	5	7	2	2	3	1	4	2	5	
42.	Total.....		88	3	4	11	5	5	7	5	6	15	9	6	7	
	Males.....		42	2	2	6	1	3	4	3	2	11	6	2	---	
	Females..		41	1	2	5	4	2	3	2	4	4	3	4	7	
43.	Total.....		69	4	4	7	4	9	2	5	7	7	7	5	3	
	Males.....		36	2	4	3	3	2	1	1	3	5	5	5	2	
	Females..		33	2	---	4	1	7	1	4	4	2	2	---	6	
44.	Total.....		85	4	3	7	9	5	4	6	6	11	6	11	13	
	Males.....		47	1	1	5	4	2	3	2	5	5	4	4	11	
	Females..		38	2	2	2	5	3	1	4	1	6	2	7	2	
45.	Total.....		120	8	10	6	7	11	8	10	10	19	14	9	8	
	Males.....		75	5	9	5	7	7	6	5	5	9	7	6	4	
	Females..		45	3	1	1	---	4	2	5	5	10	7	3	4	
46.	Total.....		70	4	3	6	12	6	4	3	10	4	7	2	3	1
	Males.....		38	3	4	3	7	4	1	1	5	3	4	---	3	
	Females..		32	1	4	3	5	2	3	2	5	1	3	2	---	1
47.	Total.....		75	---	6	7	12	4	7	5	6	10	3	9	6	
	Males.....		47	---	6	1	9	2	4	2	2	8	2	6	5	
	Females..		28	---	---	6	3	2	3	3	4	2	1	3	1	
48.	Total.....		73	2	3	5	8	3	4	4	12	16	6	6	4	
	Males.....		54	1	6	5	6	3	2	4	6	11	3	4	3	
	Females..		24	1	2	---	2	---	2	---	6	5	3	2	1	
49.	Total.....		87	7	5	16	5	3	9	4	5	7	10	3	3	
	Males.....		52	5	5	7	1	3	7	4	1	5	4	4	6	
	Females..		35	2	---	9	4	---	2	---	4	2	6	4	2	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	Year 1872.	MONTHS, 1872.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
50.	Total	94	4	4	4	4	9	5	9	9	10	18	7	16	
	Males.....	61	3	1	3	2	5	3	6	7	7	7	6	11	
	Females..	33	1	3	1	2	4	2	3	2	3	6	1	5	
51.	Total	73	8	2	8	8	6	2	5	7	7	9	6	5	
	Males.....	44	8	---	3	4	3	2	3	2	5	7	6	1	
	Females..	29	---	2	5	4	3	---	2	5	2	2	---	4	
52.	Total	93	3	6	10	10	5	6	8	9	9	12	6	9	
	Males.....	57	2	5	7	7	3	2	4	6	4	8	3	6	
	Females..	36	1	1	3	3	2	4	4	3	5	4	3	3	
53.	Total	83	5	10	9	8	6	4	4	6	13	7	5	6	
	Males.....	46	3	5	6	6	4	3	2	3	6	2	2	4	
	Females..	37	2	5	3	2	2	1	2	3	7	5	3	2	
54.	Total	103	5	6	8	14	11	5	7	9	8	12	11	7	
	Males.....	66	3	3	4	10	7	3	7	5	6	8	6	4	
	Females..	37	2	3	4	4	4	2	---	4	2	4	5	3	
55.	Total	80	4	2	7	11	9	4	4	5	6	12	7	9	
	Males.....	46	2	---	2	6	3	3	3	3	4	9	6	5	
	Females..	34	2	2	5	5	6	1	1	2	2	3	1	4	
56.	Total	79	8	4	7	8	3	4	6	8	12	7	6	6	
	Males.....	45	5	1	5	6	---	3	3	3	7	5	1	6	
	Females..	34	3	3	2	2	3	1	3	5	5	2	5	---	
57.	Total	74	4	4	3	4	4	5	6	6	7	11	10	5	
	Males.....	49	2	1	4	3	1	3	5	6	6	8	7	3	
	Females..	25	2	3	4	1	3	2	1	---	1	3	3	2	
58.	Total	70	5	6	2	11	6	4	3	2	6	10	6	9	
	Males.....	51	5	1	1	8	3	2	2	2	4	10	6	7	
	Females..	19	---	5	1	3	3	2	1	---	2	---	---	2	

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.		SEX.	Year 1872.	MONTHS, 1872.												
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
59.	Total	71	2	7	2	7	6	10	2	9	3	14	8	6		
	Males.....	47	2	3	1	6	6	8	2	2	2	10	2	3		
	Females..	24	---	4	1	1	---	2	---	7	1	4	1	3		
60.	Total	103	7	11	6	6	7	8	3	13	9	10	8	13		
	Males.....	64	5	8	6	3	3	6	2	9	4	4	4	10		
	Females..	39	2	3	---	5	4	2	1	4	5	6	4	3		
61.	Total	62	---	8	4	6	9	4	---	3	8	5	7	8		
	Males.....	36	---	3	3	2	5	---	---	2	3	4	5	4		
	Females..	26	---	5	1	4	4	4	---	1	---	1	2	4		
62.	Total	98	---	6	12	9	6	6	7	10	14	6	9	13		
	Males.....	63	---	4	9	6	2	5	4	6	9	5	4	9		
	Females..	35	---	2	3	3	4	1	3	4	5	1	5	4		
63.	Total	100	6	6	7	8	9	6	6	12	5	11	15	9		
	Males.....	58	2	4	6	6	7	2	3	6	2	6	11	3		
	Females..	42	4	2	1	2	2	4	3	6	3	5	4	6		
64.	Total	71	3	3	9	4	3	4	5	5	8	8	10	4		
	Males.....	51	3	3	6	2	5	3	5	2	7	5	7	3		
	Females..	20	---	---	3	2	3	1	---	3	1	3	3	1		
65.	Total	109	2	6	9	13	12	5	2	7	7	16	16	8		
	Males.....	61	1	4	4	10	3	4	2	5	3	9	7	4		
	Females..	48	1	2	5	9	4	1	---	2	4	7	9	4		
66.	Total	82	3	4	4	6	3	4	7	10	10	11	10	10		
	Males.....	51	3	3	2	4	3	2	5	6	5	6	6	6		
	Females..	31	---	1	2	2	---	2	2	4	5	5	4	4		
67.	Total	74	5	2	3	7	9	4	6	5	7	9	9	8		
	Males.....	41	4	2	---	4	3	3	2	2	4	3	6	3		
	Females..	33	1	---	3	3	1	1	4	3	3	6	3	5		

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.		SEX.	Year 1872.	MONTHS, 1873.											
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
68.	Total	87	4	6	8	10	8	7	8	7	7	9	10	13	...
	Males.....	57	4	1	4	8	1	4	2	7	4	6	8	8	...
	Females..	30	....	5	4	2	2	3	1	....	3	3	2	5	...
69.	Total	81	5	6	7	12	5	4	2	6	12	6	10	6	...
	Males.....	48	2	4	6	5	1	3	....	5	9	3	6	4	...
	Females..	33	3	2	1	7	4	1	2	1	3	3	4	2	...
70.	Total	84	3	6	5	8	7	3	5	11	8	13	7	7	...
	Males.....	51	1	6	3	4	5	1	5	8	1	8	5	4	...
	Females..	33	2	....	2	4	2	2	1	3	7	5	2	3	...
71.	Total	77	3	5	8	11	6	3	8	5	11	6	3	8	...
	Males.....	42	2	3	4	7	3	2	3	4	8	3	....	3	...
	Females..	35	1	2	4	4	3	1	5	1	3	3	3	5	...
72.	Total	118	6	5	10	13	8	9	10	18	11	10	9	14	...
	Males.....	65	3	3	3	7	5	5	6	10	5	6	5	7	...
	Females..	53	3	2	7	6	3	4	4	8	6	4	4	7	...
73.	Total	98	4	9	10	9	7	7	2	15	13	4	6	12	...
	Males.....	63	2	6	4	6	5	4	1	11	8	4	4	8	...
	Females..	35	2	3	6	3	2	3	1	4	5	....	2	4	...
74.	Total	64	5	4	2	8	2	7	1	4	11	8	4	3	...
	Males.....	35	2	2	....	5	1	5	1	....	7	5	2	5	...
	Females..	29	3	2	2	3	1	2	....	4	4	3	2	3	...
75.	Total	65	5	4	4	8	5	5	2	11	7	4	2	8	...
	Males.....	31	4	1	2	1	3	3	2	5	4	2	....	4	...
	Females..	34	1	3	2	7	2	2	....	6	3	2	2	4	...
76.	Total	61	2	6	....	12	9	5	4	7	4	4	2	6	...
	Males.....	40	2	4	....	8	7	4	2	5	2	2	1	3	...
	Females..	21	....	2	....	4	2	1	2	2	2	2	1	3	...

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.		SEX.	Year 1872.	MONTHS, 1872.												
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
77.	Total		45	4	3	2	5	7	3	2	3	4	6	4	1	1
	Males		27	3	3	1	1	5	1	2	2	2	5	1	....	1
	Females ..		18	1	....	1	4	2	2	....	1	2	1	3	1	..
78.	Total		61	2	6	4	5	6	5	3	7	5	4	6	3	..
	Males		35	2	3	3	1	4	1	....	4	4	3	5	5	..
	Females ..		26	....	3	1	4	2	4	3	3	1	1	1	3	..
79.	Total		49	3	6	2	4	3	3	2	5	9	2	4	6	..
	Males		26	2	3	....	2	1	2	1	2	6	2	2	3	..
	Females ..		23	1	3	2	2	2	1	1	3	3	....	2	3	..
80.	Total		50	1	2	4	3	5	2	2	6	4	10	6	5	..
	Males		29	....	2	2	1	1	2	....	4	3	6	4	4	..
	Females ..		21	1	....	2	2	4	....	2	2	1	4	2	1	..
81.	Total		32	....	2	2	5	....	....	4	1	2	3	5	6	..
	Males		21	....	....	2	3	....	....	3	....	1	3	4	5	..
	Females ..		11	....	2	....	2	....	....	1	1	1	....	1	3	..
82.	Total		51	2	2	2	2	3	....	6	6	13	7	2	6	..
	Males		24	2	1	1	1	2	....	2	4	6	1	1	3	..
	Females ..		27	....	1	1	1	1	....	4	2	7	6	1	3	..
83.	Total		37	1	3	2	4	3	1	1	4	4	4	3	6	2
	Males		24	1	2	2	3	1	1	....	3	2	3	2	3	1
	Females ..		13	....	1	....	1	2	....	1	1	2	1	1	2	1
84.	Total		41	1	4	5	1	2	3	7	5	1	5	4	3	..
	Males		22	1	1	3	1	....	1	4	2	1	4	1	3	..
	Females ..		19	....	3	2	....	2	2	3	3	....	1	3	....	..
85.	Total		29	1	2	1	5	1	....	3	2	3	5	4	2	..
	Males		17	1	1	1	3	....	....	1	2	3	3	1	1	..
	Females ..		12	....	1	....	2	1	....	2	....	....	2	3	1	..

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	Year 1872.	MONTHS, 1872.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
86.	Total	24	2	2	8	1	1	2	2	1	1	2	3	4
	Males.....	14	1	2	2	—	—	2	1	1	1	1	1	2
	Females..	10	1	—	1	1	1	—	1	—	—	1	2	2
87.	Total	29	1	—	3	1	1	3	—	2	2	5	5	6
	Males.....	18	—	—	2	—	—	2	—	2	2	4	2	4
	Females..	11	1	—	1	1	1	1	—	—	—	1	3	2
88.	Total	13	—	2	3	1	3	—	—	1	—	—	—	3
	Males.....	11	—	2	2	1	2	—	—	1	—	—	—	3
	Females..	2	—	—	1	—	1	—	—	—	—	—	—	—
89.	Total	20	—	2	—	1	2	1	2	4	1	1	2	4
	Males.....	12	—	2	—	—	1	1	1	3	—	1	2	1
	Females..	8	—	—	—	1	1	—	1	1	1	—	—	3
90.	Total	9	—	—	—	—	2	—	1	2	1	1	—	2
	Males.....	5	—	—	—	—	—	—	—	1	1	1	—	2
	Females..	4	—	—	—	—	2	—	1	1	—	—	—	—
91.	Total	8	—	2	—	1	—	—	1	1	1	1	1	—
	Males.....	4	—	1	—	—	—	—	1	—	1	—	1	—
	Females..	4	—	1	—	1	—	—	—	1	—	1	—	—
92.	Total	8	1	1	—	—	—	—	—	1	1	1	—	3
	Males.....	4	1	—	—	—	—	—	—	—	—	1	—	2
	Females..	4	—	1	—	—	—	—	—	1	1	—	—	1
93.	Total	4	—	—	1	—	—	—	—	1	—	2	—	—
	Males.....	2	—	—	1	—	—	—	—	—	—	1	—	—
	Females..	2	—	—	—	—	—	—	—	1	—	1	—	—
94.	Total	5	—	1	1	—	—	—	—	1	—	1	—	1
	Males.....	3	—	1	—	—	—	—	—	—	—	1	—	1
	Females..	2	—	—	1	—	—	—	—	1	—	—	—	—

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	Year 1872.	MONTHS, 1872.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
95.	Females.	1	...	...	1	...	...	...	...	...	...	...	...	...
96.	Females.	1	...	...	...	...	...	...	...	1	...	...	...	...
97.	Males....	2	...	...	...	...	...	...	1	1	...	...	...	...
98.	Females.	8	1	...	...	...	1	...	...	1	...	...	...	...
99.	Females.	1	...	...	...	...	...	...	...	...	1	...	...	...
100.	Total....	8	1	...	...	1	...	...	...	...	...	...	1	...
	Males....	1	...	...	...	1	...	...	...	...	...	...	...	...
	Females.	2	1	...	...	...	...	...	...	...	...	...	1	...
101.	Males....	1	...	...	...	1	...	...	...	...	...	...	...	...
Unk.	Total....	315	14	12	24	36	22	17	22	23	32	31	29	46
	Males....	176	8	8	18	28	11	6	12	12	12	15	19	27
	Females.	185	6	4	6	8	11	11	8	11	20	15	10	19
	Unknown	4	...	...	...	...	...	...	2	...	...	1	...	1

TABLE VII.—A Life Table for Males and for Females, Constructed upon the basis of the Death-rate in Michigan during the Year 1870, as Computed after Equalizing the Male and Female Population Represented by Deaths, and Correcting the Deaths for Omissions because of time before Enumeration; Calculated upon the Assumed Number of 141,731 Males and Females born; Showing for Males for each Age from birth to 112, and for Females for each Age from birth to 110, the Average Years of Life after each age,—the "Expectation of Life," so-called,—and the True Expectation of Life at all ages, according to the views of the Compiler.*

AGES IN YEARS.	Death-rate. Number of Deaths to 100 Living. ^b		OF 141,731 BORN :						Average years of Life after each age. ^c		True Expec- tation of Life at each age in years and 100ths. ^d	
			Number Living at beginning of each year of age.		Number Dying at each age.							
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.		
-1....	16.91	18.50	141,731	141,731	23,967	19,184	48.79	44.24	58.05	49.53		
1....	5.62	4.73	117,764	122,597	6,618	5,360	51.61	50.07	60.43	53.14		
2....	2.93	2.54	111,146	116,787	3,312	2,965	53.65	51.56	61.23	59.93		
3....	2.27	1.83	107,834	113,772	2,448	2,189	54.23	51.89	61.24	59.91		
4....	1.40	1.35	105,386	111,683	1,475	1,507	54.53	51.87	60.91	59.53		
5....	1.17	1.13	103,911	110,126	1,216	1,299	54.80	51.53	60.24	59.08		
6....	.85	1.07	102,695	108,927	873	1,164	58.94	51.19	59.48	58.30		
7....	.59	.74	101,822	107,663	601	797	53.39	50.73	58.66	57.56		
8....	.67	.66	101,221	106,866	673	705	52.71	50.11	57.75	56.73		
9....	.54	.66	100,543	106,161	543	701	52.06	49.44	56.92	55.83		
10....	.56	.45	100,000	105,460	560	475	51.84	48.76	56.04	55.31		
11....	.40	.43	99,440	104,935	393	504	50.63	47.98	55.18	54.17		
12....	.52	.53	99,042	104,431	515	554	49.83	47.31	54.29	53.31		
13....	.40	.63	98,527	103,927	394	655	49.09	46.46	53.42	52.46		

* For methods employed in the construction of this table, see remarks following.

^b Population equalized, because in the census the age is stated approximately, and more than the true numbers appear at important ages, such as 20, 30, 40, 50, etc. Deaths increased because of evidence that only about 64 per cent. of the deaths were returned. Per cent. of deaths during the year 1870 to population June 1, 1870, or about the middle of the year in which the deaths occurred.

^c So-called "Expectation of Life."

^d For method of obtaining this column see remarks following. It is the Probable Duration of Life. The term "Equation of Life" has been used by Nelson, but is objectionable here because it needs to be defined in order to convey the complete idea.

TABLE VII.—CONTINUED.—*Life Table, Males and Females.*

AGES IN YEARS.	Death-rate. Number of Deaths to 100 Living. ^a		OF 141,731 BORN:				Average years of Life after each age. ^b		True Expec- tation of Life at each age in years and 100ths. ^c	
			Number Living at beginning of each year of age.		Number Dying at each age.					
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
14....	.41	.56	98,183	103,272	402	578	48.23	45.75	52.52	51.65
15....	.39	.58	97,781	102,694	381	904	47.48	45.01	51.63	50.81
16....	.42	.75	97,350	101,790	409	768	46.66	44.40	50.78	50.06
17....	.57	.94	96,941	101,027	558	950	45.86	43.78	49.88	49.29
18....	.47	.87	96,858	100,077	458	871	45.12	43.14	48.98	48.58
19....	.88	1.17	95,985	99,206	844	1,161	44.33	42.52	48.10	47.84
20....	.69	.88	95,091	98,045	656	868	43.72	42.02	47.32	47.16
21....	1.05	.84	94,435	97,182	992	816	43.02	41.33	46.49	46.38
22....	.78	1.27	93,443	96,366	692	1,224	42.47	40.78	45.75	45.53
23....	.78	.81	92,761	95,143	724	771	41.73	40.25	44.98	44.89
24....	.66	1.12	92,087	94,371	607	1,067	41.10	39.57	44.20	44.08
25....	.61	.93	91,430	93,814	558	865	40.37	39.02	43.46	43.32
26....	.60	1.08	90,872	92,446	627	996	39.62	38.38	42.70	42.52
27....	.64	1.11	90,245	91,443	573	1,015	38.89	37.79	41.97	41.75
28....	.67	1.25	89,667	90,438	601	1,130	38.14	37.21	41.14	40.98
29....	.63	.89	89,066	89,303	561	795	37.39	36.67	40.30	40.29
30....	.59	1.14	88,505	88,508	522	1,009	36.62	36.00	39.45	39.51
31....	.63	.94	87,938	87,499	554	822	35.84	35.41	38.59	38.78
32....	.89	1.38	87,429	86,677	778	1,566	35.06	34.74	37.73	38.00
33....	.71	.84	86,651	85,091	615	715	34.37	34.33	36.94	37.34
34....	.63	1.16	86,036	84,376	533	979	33.61	33.66	36.07	36.50
35....	.82	1.53	85,508	83,397	701	1,318	32.82	33.05	35.15	35.70
36....	.61	.91	84,892	82,079	517	747	32.09	32.58	34.27	34.99
37....	.63	1.14	84,265	81,332	531	927	31.28	31.67	33.36	34.16
38....	1.00	1.36	83,754	80,405	533	1,094	30.48	31.28	32.45	33.33

^a Population equalized, because in the census the age is stated approximately, and more than the true numbers appear at important ages, such as 20, 30, 40, 50, etc. Deaths increased, because of evidence that only about 54 per cent. of the deaths were returned. Per cent. of deaths during the year 1870 to population June 1, 1870, or about the middle of the year in which the deaths occurred.

^b So-called "Expectation of Life."

^c For method of obtaining this column see remarks following. It is the Probable Duration of Life. The term "Equation of Life" has been used by Nelson, but is objectionable here because it needs to be defined in order to convey the complete idea.

TABLE VII.—CONTINUED.—*Life Table, Males and Females.*

AGES IN YEARS.	Death-rate. Number of Deaths to 100 Living. ^a		OF 141,731 BORN :				Average years of Life after each Age. ^b		True Expec- tation of Life at each age in years and 100ths. ^c	
			Number Living at beginning of each year of age.		Number Dying at each age.					
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
39....	.63	1.05	82,916	79,811	522	888	29.75	30.66	31.59	32.64
40....	.92	.82	82,894	78,478	758	644	28.96	29.98	30.67	31.83
41....	.64	.81	81,636	77,834	522	630	28.23	29.22	29.60	30.99
42....	.93	1.87	81,114	77,204	754	1,058	27.41	28.46	28.89	30.12
43....	1.08	1.14	80,860	76,146	868	868	26.66	27.84	28.01	29.25
44....	1.15	1.04	79,492	75,278	914	783	25.95	27.16	27.18	28.58
45....	1.10	1.12	78,578	74,495	864	894	25.24	26.44	26.36	27.70
46....	1.10	.68	77,714	73,661	855	464	24.52	25.73	25.53	26.88
47....	.85	1.15	76,859	73,197	658	842	23.75	24.89	24.70	25.98
48....	1.08	1.47	76,206	72,355	785	1,064	22.98	24.18	23.82	25.15
49....	1.26	1.15	75,421	71,291	950	820	22.22	23.53	22.98	24.36
50....	1.75	1.66	74,471	70,471	1,308	1,170	21.50	22.90	22.18	23.58
51....	1.24	.91	73,168	69,301	907	681	20.87	22.17	21.83	22.76
52....	1.85	1.45	72,261	68,670	1,337	996	20.12	21.87	20.47	21.99
53....	1.53	1.48	70,924	67,674	1,053	1,002	19.49	20.68	19.68	21.08
54....	1.78	1.32	69,889	66,672	1,248	880	18.79	19.98	18.55	20.26
55....	2.21	1.72	68,596	65,792	1,516	1,182	18.12	19.24	18.06	19.43
56....	1.95	2.05	67,080	64,660	1,305	1,326	17.52	18.57	17.87	18.62
57....	2.92	1.80	65,772	63,884	1,921	1,140	16.86	17.95	16.64	17.85
58....	2.50	1.28	63,851	62,194	1,596	765	16.35	17.27	16.04	17.07
59....	1.92	1.50	62,255	61,429	1,195	921	15.76	16.49	15.39	16.22
60....	2.42	2.01	61,060	60,505	1,478	1,216	15.06	15.72	14.65	15.41
61....	2.43	1.67	59,582	59,292	1,448	990	14.42	15.04	13.97	14.67
62....	3.79	2.66	58,184	58,802	2,208	1,551	13.76	14.29	13.28	13.87
63....	2.83	2.84	55,981	56,751	1,593	1,612	13.29	13.66	12.74	13.15

^a Population equalized, because in the census the age is stated approximately, and more than the true numbers appear at important ages, such as 20, 30, 40, 50, etc. Deaths increased because of evidence that only about 54 per cent. of the deaths were returned. Per cent of deaths during the year 1870 to population June 1, 1870, or about the middle of the year in which the deaths occurred.

^b So-called "Expectation of Life."

^c For method of obtaining this column see remarks following. It is the Probable Duration of Life. The term "Equation of Life" has been used by Nelson, but is objectionable here because it needs to be defined in order to convey the complete idea.

TABLE VII.—CONTINUED.—*Life Table, Males and Females.*

AGES IN YEARS.	Death-rate. Number of Deaths to 100 Living. ^a		OF 141,731 BORN :				Average years of Life after each age. ^b		True Expect- ation of Life at each age in years and 100ths. ^c	
			Number Living at beginning of each year of age.		Number Dying at each age.					
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
61....	8.33	4.25	51,348	53,189	1,810	2,843	12.66	18.04	12.07	12.42
62....	4.70	8.40	52,583	52,790	2,469	1,795	12.08	12.60	11.89	11.80
63....	8.83	8.27	50,069	51,001	1,913	1,668	11.65	12.08	10.84	11.12
64....	8.96	4.01	48,151	49,388	1,907	1,978	11.09	11.42	10.18	10.46
65....	2.49	4.59	46,244	47,855	1,151	2,174	10.58	10.87	9.51	9.86
66....	4.17	4.06	45,093	45,181	1,880	1,894	9.79	10.37	8.71	9.26
67....	6.98	5.40	43,218	43,947	2,995	2,841	9.19	9.79	8.04	8.59
68....	6.88	5.17	40,218	41,006	2,566	2,120	8.81	9.32	7.70	8.00
69....	8.33	6.68	37,652	38,886	3,212	2,845	8.41	8.80	7.25	7.44
70....	7.01	6.79	34,440	36,541	2,414	2,481	8.15	8.38	6.92	6.92
71....	7.18	8.28	32,026	31,060	2,999	2,808	7.73	7.90	6.45	6.47
72....	7.97	7.75	29,727	31,257	2,869	2,422	7.28	7.57	6.02	6.11
73....	10.10	10.51	27,358	28,835	2,768	3,081	6.87	7.16	5.68	5.71
74....	11.74	9.60	24,565	25,804	2,883	2,477	6.58	6.94	5.36	5.51
75....	10.58	12.07	21,707	23,327	2,286	2,816	6.40	6.68	5.16	5.20
76....	12.26	11.88	19,421	20,511	2,381	2,426	6.09	6.47	4.87	5.06
77....	12.60	12.81	17,040	18,065	2,147	2,226	5.57	6.27	4.66	4.89
78....	12.94	12.79	14,898	15,859	1,927	2,029	5.65	6.08	4.44	4.72
79....	14.28	13.27	12,966	13,831	1,832	1,835	5.41	5.59	4.28	4.57
80....	14.52	18.75	11,114	11,996	1,614	1,649	5.28	5.72	4.09	4.42
81....	15.70	14.28	9,500	10,347	1,492	1,472	5.04	5.55	3.93	4.26
82....	15.91	14.71	8,008	8,975	1,274	1,306	4.88	5.39	3.80	4.13
83....	16.12	15.19	6,784	7,569	1,056	1,150	4.71	5.24	3.64	4.00
84....	17.10	15.67	5,648	6,419	966	1,006	4.52	5.09	3.46	3.89
85....	18.08	16.15	4,682	5,418	847	874	4.35	4.94	3.30	3.77

^a Population equalized, because in the census the age is stated approximately, and more than the true numbers appear at important ages, such as 20, 30, 40, 50, etc. Deaths increased, because of evidence that only about 84 per cent. of the deaths were returned. Per cent. of deaths during the year 1870 to population June 1, 1870, or about the middle of the year in which the deaths occurred.

^b So-called "Expectation of Life."

^c For method of obtaining this column see remarks following. It is the Probable Duration of Life. The term "Equation of Life" has been used by Nelson, but is objectionable here because it needs to be defined in order to convey the complete idea.

TABLE VII.—CONTINUED.—*Life Table, Males and Females.*

AGES IN YEARS.	Death-rate. Number of Deaths to 100 Living. ^a		OF 141,731 BORN :				Average years of Life after each age. ^b		True Expectation of Life at each age in years and 100ths. ^c	
	Number Living at beginning of each year of age.		Number Dying at each age.							
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
69...	19.06	16.63	8,585	4,539	731	755	4.21	4.79	8.16	8.65
90...	19.71	17.16	8,104	3,784	612	619	4.08	4.65	8.05	8.54
91...	20.35	17.75	2,492	3,135	507	556	3.96	4.51	2.95	3.42
92...	21.00	18.84	1,955	2,579	417	473	3.85	4.37	2.86	3.31
93...	21.65	18.98	1,568	2,106	339	399	3.74	4.24	2.78	3.20
94...	22.30	19.52	1,229	1,707	274	333	3.63	4.12	2.70	3.09
95...	22.95	20.11	935	1,374	219	276	3.53	3.99	2.63	2.99
96...	23.59	20.70	736	1,093	174	227	3.43	3.87	2.55	2.91
97...	24.24	21.29	562	871	136	185	3.34	3.75	2.45	2.84
98...	24.89	21.88	426	686	106	150	3.25	3.68	2.40	2.76
99...	25.54	22.47	320	536	82	120	3.17	3.50	2.34	2.68
100...	26.19	23.06	238	416	62	96	3.09	3.37	2.29	2.61
101...	26.83	23.65	176	320	47	76	3.00	3.23	2.23	2.54
102...	27.48	24.24	129	244	35	59	2.91	3.08	2.20	2.49
103...	28.13	24.83	94	155	26	46	2.81	2.90	2.07	2.43
104...	28.79	25.42	68	139	20	35	2.70	2.80	2.00	2.38
105...	29.43	26.01	48	104	14	27	2.62	2.48	2.00	2.33
106...	30.07	26.60	34	77	10	20	2.50	2.11	2.00	2.16
107...	30.72	27.19	24	57	7	15	2.33	1.67	2.00	1.61
108...	31.37	27.78	17	42	5	22	2.08	1.09	2.00	.95
109...	32.02	28.37	12	20	4	15	1.75	.75	1.67	.67
110...	32.67	28.96	8	5	3	5	1.37	.50	1.33	.50
111...	33.32	29.55	5	-----	3	-----	.90	-----	1.00	-----
112...	33.97	30.14	2	-----	2	-----	.50	-----	.50	-----
All Ages.	1.78	1.74	6,273,601	6,341,543	141,731	141,731	-----	-----	-----	-----

^a Population equalized, because in the census the age is stated approximately, and more than the true numbers appear at important ages, such as 30, 40, 50, etc. Deaths increased, because of evidence that only about 34 per cent. of the deaths were returned. Per cent. of deaths during the year 1870 to population June 1, 1870, or about the middle of the year in which the deaths occurred.

^b No-called "Expectation of Life."

^c For method of obtaining this column see remarks following. It is the Probable Duration of Life. The term "Equation of Life" has been used by Nelson, but is objectionable here because it needs to be defined in order to convey the complete idea.

This Life Table for Males and Females in Michigan is a combination of the "Life Table for Males" published in the introduction to "Statistics of Michigan, 1870," and the "Life Table for Females" published in the Vital Statistics of Michigan, 1871, leaving out certain columns containing the population and the number of deaths. It is published here in order to allow of direct comparisons of the two sexes, and because the "Life Table for Males" based upon the probable deaths has not heretofore been published in any Registration Report, the table in the Vital Statistics of Michigan, 1870, having been based upon the returns without correction for omissions in enumeration. The methods of computing these two tables were explained in the remarks following each, and any reader who desires further details than are here given may find them in the last Report, as they were not very different for the two sexes. The general principles of construction of that part of the table which exhibits the "True Expectation of Life," etc., may be stated as follows: The "Average Years of Life after each age" was found *by dividing the aggregate time lived by all after a given age by the number living at that age*. The "True Expectation of Life" was obtained by the following method: *Ascertain the age at which one-half the number living at the given age will have died, and subtract the given age*.

In the second and third columns of this Life Table are exhibited, for each of the two sexes, the chances of death in Michigan at each year of age, from birth to the most extreme limit, so far as appears by the evidence upon which the table is based. The figures in these columns show for each sex the number that die out of one hundred living at each age, according to the combined evidence obtained from the census and registration returns. Although the numbers are large in infancy and in old age, it will be seen from the last line in the table that the total death-rate at all ages is not large, compared with localities for which the deaths are all enumerated. The death-

rate is usually stated by number to each thousand living. By moving the decimal point one place to the right, we find it here shown to be 17.3 for the males, and 17.4 for the females in Michigan.

The columns headed "Average years of life after each age," exhibit for each sex what the heading implies. Unfortunately this has been generally termed the "Expectation of Life," leading people to understand that it is the probable duration of life, which it is not. It may be properly termed the "Average After Lifetime," or the "Average Future Duration of Life," but the idea of probabilities which the term expectation implies should be entirely divorced from it, for at many ages the probabilities of life are quite different from the average future duration.

In the last two columns of this Life Table there is exhibited for each sex at each age the "True Expectation of Life." This is the "Probable Duration of Life." It appears by this table that at birth the males in Michigan may reasonably be expected to live 53.05 years, while the females have a probability of living 49.52 years, or 3.53 years less than the males. If the child lives through the first year its chances for life are much better, for it appears by the second and third columns of the table that the chances of death during the first year are, for males, 16.91, and for females 13.50 per cent. The true expectation of life is therefore much greater just after this dangerous first year of life has been passed. The probable duration of life appears by this table to be greatest, however, at the age of three years for males, and at the age of two years for females. At the ages between 29 and 107 years the true expectation of life appears to be greater for females than for males, except at the ages 73 and 74. This fact will very likely be overlooked by many, because at the beginning of the table the true expectation is 3.53 years greater for males than for females, and because at the close of the table the death-

rate at all ages is a minute fraction greater for females than for males.

The question of how much reliance can be placed upon this Life Table will probably arise in some minds, and be answered differently by different persons. While it is certain that we have not positive data with which to construct a life table for Michigan, the compiler has considerable confidence in this table; and while knowing well the imperfections of the returns, he also knows the care that has been taken to so correct the numbers returned that they shall conform to the evidence as to the probable numbers which occurred, and he believes the evidence is valuable for the purposes of such correction. At the same time the subject is of such importance to the interests of public health that great effort should be made to secure better data; and although the table is believed to be very valuable because it is the best guide that can now be had respecting the comparative and actual danger in this State at the different ages, its value is not as great as it would be if we knew positively that it was absolutely and entirely in accordance with all the facts bearing upon the subject.

Opportunities for constructing Life Tables for the inhabitants of the entire State do not often occur, and it will probably be several years before any further material can be secured, as the plan of enumerating the inhabitants in the State census is not such as to render its results available for the purpose. When the United States census shall be taken in 1880 it is to be hoped that the vital statistics of the State will be in still better working order, and that every effort will be made and care taken to secure a Life Table for Michigan which shall approximate still nearer than this to the true statements.

The methods of construction and some of the methods of study and interpretation of Table VIII. have been described on pages 201-2 of last Report. From this very comprehensive table Exhibits 3, 4, and 5, following, have been worked out. The table itself will repay careful and thorough study.

TABLE VIII.—*Exhibiting by Sex the Number of Children under One Year of Age, Distinguishing the months in which they Died, their ages in months, and whether Born in the Year of birth.*

Number Born in each Month of Year of Death.					NUMBER OF CHILDREN THAT DIED AT AGE IN MONTHS.										
Months in which Births & Deaths Occurred.	Year.	Totals.	Sex.	Number of each Sex.	-1.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
January.....	1872.	228	Males....	119	27	2	2	6	5	2	3	1	1	1	1
			Females..	104	27	2	3	3	--	3	3	1	1	1	1
February.....		236	Males....	122	36	6	2	2	3	8	6	3	1	1	1
			Females..	104	28	4	5	6	1	3	4	3	1	1	1
March.....		276	Males....	145	54	8	11	6	5	6	4	4	4	4	4
			Females..	131	37	9	6	5	2	7	3	2	1	1	1
April.....		259	Males....	141	45	8	7	4	8	4	13	4	1	1	1
			Females..	118	30	8	4	4	1	6	4	4	1	1	1
May.....		250	Males....	133	44	10	8	5	8	4	4	5	1	1	1
			Females..	97	32	11	7	10	4	5	--	4	3	1	1
June.....		236	Males....	119	36	10	6	9	5	4	7	6	1	1	1
			Females..	117	26	5	9	6	4	1	5	3	1	1	1
July.....	256	Males....	143	65	15	20	27	13	15	12	9	1	1	1	
		Females..	113	36	11	15	15	13	15	11	6	1	1	1	
August.....	231	Males....	133	77	36	27	33	22	25	25	19	2	2	2	
		Females..	98	58	32	29	24	24	23	19	15	1	1	1	
September.....	170	Males....	97	65	29	13	17	26	18	13	11	1	1	1	
		Females..	73	43	23	18	23	8	14	19	6	1	1	1	
October.....	129	Males....	79	54	18	13	14	15	19	6	7	1	1	1	
		Females..	50	32	18	12	19	10	8	7	4	1	1	1	
November.....	102	Males....	54	35	12	7	8	7	5	4	5	1	1	1	
		Females..	48	38	11	5	5	4	3	4	4	1	1	1	
December.....	187	Males....	77	77	19	13	7	6	8	4	4	1	1	1	
		Females..	60	60	15	7	7	5	4	15	1	1	1	1	
DEATHS BY AGES.	Of those Born in Year of Death.	1872.	Males....	1,392	615	171	120	124	102	87	69	46	2	2	2
			Females..	1,118	437	147	112	118	77	73	75	30	2	2	2
			Totals....	2,505	1,052	318	232	237	179	160	144	76	4	4	4
			Males....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
			Females..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
			Totals....	740	4	17	25	20	45	56	53	14	1	1	1
All Ages under one year.	Of those Born in Previous Year.	1871.	Males....	.....	615	173	124	188	113	111	106	75	2	2	2
			Females..	.....	437	149	125	127	81	97	94	53	1	1	1
			Totals....	3,245	1,052	322	249	265	199	208	200	131	3	3	3
			Males....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
			Females..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
			Totals....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Excluding 3 males and 6 females, month of death unknown.

*of Age Returned as having Died in Michigan during the Year 1872 ; months at Death, the months in which they were Born, Death or in the Previous Year.**

AT EACH						DEATHS BY MONTHS.							
			Number Born in Each Month of Year Previ- ous to year of Death.			Of those Born in Year of Death.		Of those Born in Previous Year.		All Aged Under one Year.			
9.	10.	11.	Number of each Sex.	Total.	Year.	Sex.	Total.	Sex.	Total.	Sex.	Total.		
1	2	4	4	---	---	27	54	82	60	59	114		
2	2	4	---	---	---	27	---	26	---	55	---		
3	3	5	3	4	4	42	74	88	68	80	142		
4	1	2	3	---	---	32	---	80	---	62	---		
5	6	5	5	7	14	73	125	47	76	120	201		
6	5	1	1	7	---	52	---	29	---	81	---		
7	6	5	4	12	17	64	110	44	77	108	187		
8	4	3	2	5	---	46	---	33	---	79	---		
9	8	4	7	12	19	70	124	37	59	107	198		
10	2	2	3	6	---	64	---	22	---	86	---		
11	1	5	7	22	26	70	191	84	55	104	176		
12	4	2	4	14	---	51	---	21	---	72	---		
1	6	12	13	29	49	167	268	52	95	219	353		
2	8	9	16	30	---	121	---	43	---	164	---		
3	21	20	17	43	81	264	468	80	143	244	680		
4	18	16	12	36	---	224	---	62	---	256	---		
5	16	12	17	56	96	206	377	45	71	258	448		
6	8	6	12	40	---	169	---	26	---	195	---		
7	9	3	11	34	142	156	275	19	28	175	308		
8	5	5	4	58	---	119	---	9	---	128	---		
9	7	6	8	79	136	98	178	3	9	101	167		
10	3	7	6	57	---	80	---	6	---	86	---		
11	6	5	2	33	146	158	281	---	---	153	291		
12	3	2	5	64	---	123	---	---	---	123	---		
1	22	11	2	---	---	1,392	---						
2	11	9	5	---	---	1,118	---						
3	33	20	7	---	---	---	2,505						
4	69	80	91	431	---	---	---	431	---				
5	52	51	68	309	---	---	---	309	---				
6	121	181	154	---	740	---	---			740	---		
7	91	91	93	---	---	---	---					1,823	---
8	63	60	66	---	---	---	---					1,422	---
9	154	151	161	---	---	---	---					---	2,245

known; and 21 deaths of persons of unknown sex,—30 in all.

EXHIBIT 2.—*The Relation of Stillbirths to all Persons returned as having Died in Michigan during the several Years 1868 to 1872, inclusive, according to the Returns of Deaths.*

	TOTAL DEATHS AND STILLBIRTHS.*				
	1868.	1869.	1870.	1871.	1872.
Total Number of Deaths.....	6,826	9,145	10,766	9,728	12,371
Number of Stillbirths*.....	46	129	226	268	294
Per Cent. of Stillbirths to Total Deaths.	.78	1.41	2.10	2.75	1.88

* As per returns of deaths.

Exhibit 2 is similar to Exhibit 6 of Births, page 93, and shows the number of stillbirths and the per cent. of stillbirths to deaths, as per returns of deaths. The number of stillbirths should be the same in the returns of deaths as of births, but by comparing this exhibit with the one on page 93, it will be seen that except for 1868 and 1869 more are returned among the deaths than among the births. There is room for improvement in this particular in the work of supervisors and assessors.

INFANT MORTALITY AND DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.

This is a subject frequently discussed, because of the large share of the total mortality which is believed to be due to preventable deaths of infants. It is a subject in which it seems particularly easy to make mistakes in interpreting vital statistics.

It is proposed to devote a little more time and space than heretofore to a presentation of the evidence of the statistics of this State bearing upon the subject.

Some of the questions upon which evidence is offered, so far as this State is concerned, are the following:

1. What proportion of the total deaths are of children under one year of age?

2. What proportion of the total deaths are of children under five years of age?

3. What proportion of all the children born die under one year of age?

4. What proportion of children born die before they are five years old?

5. Children born in what month are in greatest or least danger of death before one year of age?

6. What proportion of the children born in each month of the year who died under one year of age died in each of the months following? That is, in what months of the year is the greatest danger to children born in each of the different months?

7. What proportion of the children born in each month die under one month of age?

8. As regards the foregoing, what are the differences between the sexes?

The first two of these questions are answered as regards the year 1872 in Table IV., page 172, and the last one is briefly referred to on page 176 of this Report. For the year 1872, 24.49 per cent. of the total reported mortality was of children under one year of age; and 41.52 per cent. was of children under five years of age. These proportions are not very different, but slightly greater than the computation for 1871, as may be seen by referring to page 168 of the Report for that year, where it will be seen that they were respectively 22.90 per cent. and 39.43 per cent. In the Report for 1870 it was stated on pages 129 and 131 as follows: 24.65 per cent. of the total mortality was of children aged under one year; and 42.58 per cent. was of children aged under five years. We may say in general terms that over one-fifth, and very nearly one-fourth of all the deaths returned in this State are of children under one year of age. About two-fifths of all deaths returned in this State are of children under five years of age. For the statement occasionally seen in print, that "two-fifths

of the children born in the State die under five years," the foregoing furnishes no proper foundation. The answer to our fourth question will bear upon that subject. The sexes do not exhibit quite equal proportions. For the year 1871 the per cent. of decedents under one year of age was: males 23.81, females 21.40*; for 1872 it is: males 25.42, females 23.17. For the year 1871 the per cent. of decedents under five years of age was: males 40.35, females 38.03; for 1872 it is: males 42.44, females 40.30. To many persons it may seem impossible from the statistics of this State to answer our third and fourth questions, for the reason that neither the births nor the deaths are believed to be all returned. Nevertheless it seems plain that if the births and the deaths of children are both returned in equal proportions of the whole number, we may be able to answer the question accurately. To the inquiry, Are they returned with equal accuracy? one would be inclined to think they might not be, for the reason that of the children born the greater number would be living and present reminders of the fact of their birth, while the absent dead might be more readily forgotten. Fortunately we have some evidence bearing upon the question. By the system of correction devised and used by the compiler, and which is illustrated and described in Exhibits A, B, C, and D of births in this Report, and the remarks in connection therewith, it appears probable from similar exhibits in last Report that the births returned for the year 1871 were about 70 (69.99) per cent. of the whole number which occurred. By the same system of correction, applied to the deaths, it appears probable that the total deaths returned for the same year were about 62 per cent. (61.73) of the whole number which occurred. For the year 1872 the difference does not appear to be quite as great. The proportions returned were: of the births 64.95 per cent., and of the deaths 63.31 per cent.

* Because of a misplaced decimal point this does not appear correctly in Table IV., p. 168, V. S. 1871.

Another question which naturally arises, but which is difficult to answer, is whether the deaths of infants are returned in the same proportion as the total deaths. The following computation may bear indirectly upon this question. It is to be regretted that the comparison of deaths returned by the two methods cannot be made for the same year, but for the year 1869 the deaths by registration returns were not so compiled as to show those under one year of age.

DEATHS.	Deaths in Michigan as per U. S. Census, for the year ending June 1, 1870.	Deaths in Michigan as per Registration Report, for the year ending June 1, 1871.	Per cent. of Returns by Registration to those by Census.
All Deaths.....	11,181	11,023	98.59
Aged under one year....	2,568	2,785	108.50

It will be seen by the above that compared with the returns by the census marshals, the numbers returned by the supervisors and assessors bear a slightly greater proportion for the deaths of those aged under one year than for the deaths at all ages. This may be due to some cause affecting the deaths of those aged under one year differently in the two years, or it may be that the census marshals omitted to enumerate deaths of children that were better known and more thoroughly enumerated by supervisors and assessors. If this last is the true explanation, it tends to the belief that the omissions in enumerating deaths are greater among children than among adults. It must be admitted that the evidence on this point is very slight. The evidence as to the omissions at all ages is somewhat stronger. In the Life Table constructed from the returns in this State corrected for omissions, it is assumed that the omissions are the same at all ages.

Question 3 is answered, so far as can well be done at this time, in the Life Table—VII., page 196—by computations, as follows: The number of children born is 141,731, and the number dying under one year of age is: of males 23,967,

of females 19,134. Multiplying each of these numbers by 100, and dividing by 141,731—the number born—we obtain the answers to the question as follows: males 16.91 per cent., females 13.50 per cent.

So far as it is possible to do so at this time, question 4 is also answered in the Life Table—VII.—by computations as follows: The number of children born is 141,731, and the number dying under five years of age, as obtained by adding the numbers dying at each age up to four, inclusive, is: of males 37,820, of females 31,605. Multiplying each of these numbers by 100, and dividing by 141,731—the number born—we obtain the answers to the question as follows: males 26.68 per cent., females 22.29 per cent.

The evidence relative to question 5 is contained in Exhibit 3 and the remarks thereon.

The evidence relative to question 6 is contained in Exhibit 4 and the remarks thereon.

The evidence relative to question 7 is contained in Exhibit 5 and the remarks thereon.

The evidence relative to question 8 is contained in the same tables and exhibits, so far as they show each sex, that answer the other questions.

EXHIBIT 3.—Of the Children born in 1871, the number that died during the year 1871; the number that died during the year 1872, under one year of age; the Total Number that died under One year of Age; and Per Cent. of decedents aged under One year to the Children born in 1871.

MONTHS OF BIRTHS.	CHILDREN BORN IN 1871.					MALES BORN IN 1871.					FEMALES BORN IN 1871.				
	Births 1871, as returned.	Died during the year 1871.	Died aged under one year during the year 1872.	Died aged under 1.	Per Cent. of Deaths under 1, to Births.	Births of Males 1871, as returned.	Died during the year 1871.	Died aged under one year during the year 1872.	Died aged under 1.	Per Cent. of Deaths under 1, to Births.	Births of Females 1871, as returned.	Died during the year 1871.	Died aged under one year during the year 1872.	Died aged under 1.	Per Cent. of Deaths under 1, to Births.
Total	25,926	1,718	740	2,458	9.48	13,567	939	481	1,420	10.47	12,393	729	809	1,088	8.44
January	1,737	168	.....	163	9.67	938	106	.....	106	11.80	794	62	.....	62	7.81
February	1,683	163	4	167	9.89	861	99	4	108	11.93	819	64	.....	64	7.81
March	1,987	184	14	198	9.96	1,049	95	7	102	9.72	985	89	7	96	10.27
April	1,899	167	17	184	9.69	955	98	12	105	10.99	941	74	5	79	8.40
May	2,046	155	19	174	8.50	1,061	87	13	100	9.48	978	68	6	74	7.57
June	1,893	141	36	177	9.83	998	78	22	100	10.07	898	63	14	77	8.57
July	2,171	144	49	198	8.89	1,124	83	29	112	9.96	1,041	61	20	81	7.79
August	2,586	158	81	239	9.43	1,327	54	48	127	9.57	1,203	74	88	113	9.32
September	2,518	118	96	214	8.50	1,289	68	56	119	9.28	1,234	55	40	95	7.76
October	2,478	125	143	267	10.77	1,291	76	84	160	12.89	1,179	49	58	107	9.08
November	2,829	98	186	229	9.83	1,263	65	79	144	11.41	1,063	28	57	85	8.00
December	2,689	102	146	248	9.40	1,414	60	82	142	10.04	1,220	42	61	106	8.69

^a Excluding 66 in unknown month, —29 males, 34 females, and 3 unknown sex.

Exhibit 3 shows by months the number of children born in 1871, and, of these, the number that died under one year of age. The last column exhibits the number of deaths out of 100 born in each month; and it will be seen that the greatest number were of children born in October, the next in order being those born in March, while May and September show the least number, each being 8.50 in 100 children born. That is, for all children born, the highest death-rate under one year of age appears to be among those born in October, and the lowest among those born in May and September.

Of course the year studied may have been exceptional, but the statements are made in order to illustrate their important nature when worked out for a sufficiently long series of years.

By studying the sexes separately, it appears that out of each 100 children born two more males than females died under one year of age. The order of greatest mortality is different for the two sexes. For males the greatest mortality is shown for October, the least for September; while for females the greatest is for March, the least for May.

EXHIBIT 4.—The Months of Birth and of Death of Children Born in 1871 who Died Under One Year of Age.

MONTHS OF BIRTHS, 1871.	MONTHS OF DEATH, 1871.												MONTHS OF DEATH, 1872.											
	Births, 1871. Died under One.	MONTHS OF DEATH, 1871.												MONTHS OF DEATH, 1872.										
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.
Born in 1871—died aged under one year.....	2,453	47	74	105	111	95	99	176	224	233	204	141	199	60	68	76	77	69	55	95	142	71	28	9
January.....	168	47	18	18	9	7	6	21	14	14	13	8	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February.....	167	.....	56	17	15	6	9	11	21	15	6	7	5	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March.....	193	.....	.....	75	13	7	8	18	22	24	5	7	5	8	6	.....	.....	.....	.....	.....	.....	.....	.....	.....
April.....	184	.....	.....	.....	74	7	10	18	19	21	7	8	8	.....	7	6	.....	.....	.....	.....	.....	.....	.....	.....
May.....	174	.....	.....	.....	.....	66	14	17	19	18	12	8	6	3	4	6	6	.....	.....	.....	.....	.....	.....	.....
June.....	177	.....	.....	.....	.....	.....	59	19	21	18	9	7	8	2	5	11	8	10	.....	.....	.....	.....	.....	.....
July.....	198	.....	.....	.....	.....	.....	.....	72	24	15	15	8	10	6	6	9	10	7	11	.....	.....	.....	.....	.....
August.....	229	.....	.....	.....	.....	.....	.....	.....	94	37	6	11	10	5	10	6	14	10	7	29	.....	.....	.....	.....
September.....	214	.....	.....	.....	.....	.....	.....	.....	.....	71	25	8	14	5	11	7	8	10	5	21	29	.....	.....	.....
October.....	267	.....	.....	.....	.....	.....	.....	.....	.....	.....	107	7	11	9	4	13	17	9	11	14	86	29	.....	.....
November.....	229	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77	16	10	8	7	10	4	9	16	89	18	15	.....
December.....	248	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	102	4	7	11	4	9	12	15	88	24	13	9

The first column of Exhibit 4 shows, for the year and for each month of the year 1871, the number of children that were born who died under one year of age. The other columns show the months of the years 1871 and 1872 in which these deaths occurred. These Exhibits differ, in that Exhibit 4 shows the distribution throughout the two years 1871 and 1872 of the deaths of children aged under one year who were born in 1871, while Exhibit 3 shows the aggregate number of deaths of children under one year of age who were born in each month of the year 1871, without regard to the months in which they died. It may be seen that of the children born in each month who died under one year of age a large proportion died during the month of birth.

The per cent. of deaths of children under one month to deaths of those aged under one year, was greatest for those born in December, and least for those born in January.

It will be seen by Exhibit 5 that in every month except January the per cent. of deaths of children aged under one month to births is larger among the males than among the females. The greatest excess per cent. is found in the months of July, September, August, and October. These, with December and March, are the months in which the excess is greater than the excess per cent. for the year.

Among children of both sexes born in the several months of 1871 the greatest proportion of deaths of those under one month of age appears for those born in December, and the least for those born in June. That is, so far as the slight evidence of one year serves to indicate, children born in December are most liable to die before reaching the age of one month, while for those born in June the chances for living past that age are greater than in any other month. The same proposition is true for the female children, considered by themselves. For the male children the per cent. of deaths was greatest for those born in December and least for those born in November.

EXHIBIT 5.—By Months, and by Sex, the Relation of the Decedents aged under one Month to the Births in Michigan during the Year ending December 31, 1872.

SEX, ETC., SPECIFIED.		MONTHS, 1872.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total	Births	27,998	1,774	1,899	2,233	2,331	2,250	2,413	2,317	2,713	2,428	2,357	2,735	28
	Deaths, aged under one month	1,054	54	64	91	76	62	101	130	103	86	68	137	2
	Per Cent. of Deaths to Births	3.76	3.04	3.37	4.15	3.33	2.76	4.19	4.61	3.96	3.54	2.85	5.30	7.14
Males	Births	14,457	910	937	1,143	1,193	1,157	1,296	1,431	1,361	1,232	1,155	1,313	11
	Deaths, aged under one month	615	27	36	54	44	36	65	77	65	54	35	77	-----
	Per Cent. of Deaths to Births	4.25	2.97	3.63	4.70	3.79	3.11	5.05	5.39	4.75	4.21	2.95	5.86	-----
Females	Births	13,453	563	910	1,043	1,078	1,035	1,123	1,350	1,344	1,137	1,157	1,262	13
	Deaths, aged under one month	439	27	25	37	32	26	36	53	43	32	33	60	2
	Per Cent. of Deaths to Births	3.25	3.13	3.03	3.53	2.97	2.40	3.21	3.94	3.20	2.81	2.85	4.75	17.50
Unknown	Births	88	1	2	4	6	8	4	6	8	9	15	10	5
	Deaths, aged under one month	20	2	-----	2	1	1	1	2	2	1	4	3	-----

* Stillbirths included.

TABLE IX.—Deaths in Michigan, during the year 1872, of those Aged One Hundred Years and over; exhibiting all the details concerning them included in the returns.

NAME.	Sex.	Color.	Married, Single, or Widowed.	Birthplace.	Age.			Occupation.	Place of Death.		Date of Death.		Cause of Death.
					Y'rs.	Mo's.	Days.		Town.	County.	Month.	Day.	
Stephen Case.....	Male...	White	Widower..	New Jersey	101	11	10	Tailor.....	Liberty.....	Jackson....	April....	10	Old age.
Mary Quigley.....	Female	White	Widow....	Vermont..	100	.....	6	Not stated...	St. Clair City.	St. Clair....	Nov.....	18	Old age.
Betsy E. Inman....	Female	White	Widow....	Mass.	100	10	.....	Not stated...	White Pigeon	St. Joseph.	Jan.	18	Old age.
Peter Compeau	Male...	White	Widower..	"America".	100	.....	.....	Unknown....	Detroit.....	Wayne.....	April.....	27	Old age.

EXHIBIT H.— *Counties and Townships from which no Returns of Deaths for 1872 were received by this Department.*

COUNTIES.	TOWNSHIPS.	POPULATION JUNE 1, 1870.						
		Total.	Males.	Females.	NATIVE.		FOREIGN.	
					Males.	Females.	Males.	Females.
Total .....	.....	26,327	14,337	11,890	9,387	8,886	5,000	3,504
Alpena.....	Ossineke.....	144	91	58	38	19	53	34
Cass.....	Mason	809	419	390	404	384	13	6
Charlevoix...	Norwood	192	91	91	65	69	26	23
Clare.....	Sheridan	87	50	37	46	34	4	3
Delta	All Townships..... <i>a</i>	2,441	1,466	955	699	604	787	351
Houghton....	Franklin..... <i>a</i>	2,164	1,105	1,059	527	526	578	583
Iosco	{ Grant..... <i>a</i>	107	68	44	47	33	16	11
	{ Oscoda..... <i>a</i>	476	337	189	108	57	229	83
Keweenaw....	{ Eagle Harbor..... <i>a</i>	778	431	347	189	185	242	163
	{ Grant..... <i>a</i>	152	75	77	40	48	35	34
Lake.....	Yates..... <i>a b</i>	.....	.....	.....	.....	.....	.....	.....
Mackinac....	All Townships.....	1,715	905	810	696	635	209	125
	{ Filer..... <i>a</i>	376	211	165	99	81	112	64
	{ Morilla	129	74	55	57	43	17	12
Manistee....	{ Springdale..... <i>b</i>	.....	.....	.....	.....	.....	.....	.....
	{ Stronach..... <i>a</i>	281	172	109	55	49	117	60
Manitou.....	Galilee.....	208	103	100	61	64	42	36
Marquette....	Ishpeming City, 8d W'd..... <i>c a</i>	.....	.....	.....	.....	.....	.....	.....
	{ Branch..... <i>b</i>	.....	.....	.....	.....	.....	.....	.....
	{ Free Soil.....	142	79	63	65	49	14	14
Mason	{ Hamlin	124	80	44	35	28	45	16
	{ Pere Marquette.....	955	547	408	305	261	212	147
Mecosta.....	Grant.....	144	77	67	70	60	7	7
Midland	{ Homer.....	247	126	121	106	99	20	23
	{ Lincoln.....	322	181	141	114	99	67	43

^aCounty Clerk says no returns from Supervisor.

^bOrganized since census was taken.

^cIncorporated since census was taken.

EXHIBIT H.—CONTINUED.

COUNTIES.	TOWNSHIPS.	POPULATION JUNE 1, 1870.						
		Total.	Males.	Females.	NATIVE.		FOREIGN.	
					Males.	Females.	Males.	Females.
Missaukee....	Reeder.....	180	76	54	22	11	54	43
	{ Ash.....	1,449	755	694	588	561	167	138
	{ Exeter.....	1,059	567	492	414	389	128	108
Monroe.....	Frenchtown.....	2,115	1,100	1,015	837	790	268	235
	Milan.....	1,421	724	697	668	649	56	48
	{ Raisinville.....	1,795	931	864	705	652	226	212
Montcalm....	{ Home.....	178	101	72	94	65	7	4
	{ Montcalm.....	1,009	527	482	344	321	188	161
Muskegon....	{ Cedar Creek..... <i>a</i>	660	355	305	282	253	73	53
	{ Laketon..... <i>a</i>	1,089	635	404	309	255	326	149
Newaygo....	{ Beaver..... <i>a</i>	142	84	58	76	51	8	7
	{ Bridgeton..... <i>a</i>	897	225	172	196	149	29	23
	{ Grant.....	77	45	32	44	31	1	1
	{ Norwich..... <i>b</i>	-----	-----	-----	-----	-----	-----	-----
Osceola.....	{ Cedar..... <i>a b</i>	-----	-----	-----	-----	-----	-----	-----
	{ Richmond..... <i>a</i>	658	358	305	154	128	199	177
	{ Sylvan..... <i>a</i>	43	28	15	26	15	2	-----
Presque Isle..	Presque Isle..... <i>a b</i>	-----	-----	-----	-----	-----	-----	-----
Saginaw.....	Albee..... <i>a</i>	197	115	82	95	70	20	12
Tuscola.....	Ellington..... <i>a</i>	452	242	210	157	129	85	81
Washtenaw..	Freedom..... <i>a</i>	1,261	677	584	385	334	292	250
	{ Clam Lake..... <i>b</i>	-----	-----	-----	-----	-----	-----	-----
	{ Cleon..... <i>b</i>	-----	-----	-----	-----	-----	-----	-----
Wexford.....	{ Colfax.....	172	94	78	85	68	9	10
	{ Henderson..... <i>b</i>	-----	-----	-----	-----	-----	-----	-----

a County Clerk says no returns from Supervisor.*b* Organized since census was taken.

Exhibit H, compared with the same for 1871, shows a decrease in the number of counties and townships which were delinquent in their returns of deaths, only about two-thirds as many townships failing to make returns in 1872 as in 1871.

EXHIBIT I.—*Counties and Townships in which it is Reported that no Deaths Occurred in 1872.*

COUNTIES.	TOWNSHIPS.	Population June 1, 1870.
Total.....		2,629
Allegan.....	Pine Plains.....	180
	{ Au Gres.....	255
	{ Beaver.....	141
Bay.....	{ Clayton..... ^a	
	{ Portsmouth.....	1,660
Iosco.....	Edwards..... ^a	
Isabella.....	Sherman.....	184
	{ Clinton..... ^a	
Mecosta.....	{ Sheridan.....	185
Menominee.....	Ingallston..... ^a	
Oceana.....	Colfax.....	77
Osceola.....	Hartwick.....	47
Sanilac.....	Elmer..... ^a	

^a Organized since census was taken.

Exhibit I shows great falling off in the number of counties and townships in which it is reported that no deaths occurred in 1872. In 1872 the number of such townships is not one-half as large as in 1871. This is believed to indicate progress in the cause of truth. It does not seem probable, however, that no deaths occurred in a township like Portsmouth, containing 1,660 inhabitants in 1870. Indeed, one may question whether there were not some deaths in some of the less densely populated townships in this list, although the county clerks certify that the statements in this Exhibit as to absence of deaths are in accordance with the returns of supervisors and assessors. There may yet be some misunderstanding of this subject on the part of the supervisors and assessors.

TABLE X.—*Exhibiting for the State and Counties, by Sex, gan during the Year 1872, and in each Month of the*

STATE AND COUNTIES.	Sex.	Year 1872.	MONTHS.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December. known.
STATE.....	Total	13871	602	756	941	1140	979	815	1050	1788	1658	1321	1056	1258 30
	Males	7182	316	398	510	635	503	438	588	946	898	724	567	701 9
	Fe's..	6162	294	358	429	504	472	376	509	787	758	595	487	584 19
	Unk..	27	2	....	2	1	2	1	8	8	2	2	4	8 8
Alcona.....	Total	17	1	1	....	....	1	....	4	5	2	2	....	1 ..
	Males	8	1	....	....	....	....	....	1	8	1	1	....	1 ..
	Fe's..	9	....	1	....	....	1	....	8	2	1	1	....	.... ..
Allegan.....	Total	388	23	28	28	32	17	15	21	44	59	53	26	39 8
	Males	210	9	15	14	21	8	6	12	21	34	31	15	23 1
	Fe's..	170	14	13	9	11	9	9	8	22	25	22	11	16 1
	Unk..	8	....	....	....	....	....	....	1	1	....	....	....	.... 1
Alpena... *	Total	19	1	1	....	1	....	1	....	4	3	....	1	7 ..
	Males	12	....	....	....	1	....	1	....	2	3	....	1	4 ..
	Fe's..	7	1	1	....	....	....	....	....	2	....	....	....	8 ..
Antrim	Total	33	...	1	3	2	1	2	1	4	7	5	3	4 ..
	Males	16	...	1	1	1	1	....	1	2	6	1	....	2 ..
	Fe's..	17	...	....	2	1	....	2	....	2	1	4	3	2 ..
Barry.....	Total	208	5	12	15	13	20	11	10	21	24	23	13	23 1
	Males	98	2	6	8	4	8	5	4	13	13	13	9	11 ..
	Fe's..	105	3	4	10	8	12	6	6	8	11	10	9	17 1
Bay.....	Total	363	14	13	31	29	19	24	28	48	35	29	37	51 ..
	Males	221	8	9	21	17	12	13	14	29	19	21	23	35 ..
	Fe's..	142	6	9	10	12	7	11	14	19	16	8	14	16 ..

* Except of townships not represented by returns of deaths in 1872. See Exhibit H.

*the Number of Deaths returned as having occurred in Michi-
Year ; also the Number of Deaths at each Period of Age.*

Ages.																	
Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
5552	754	447	588	683	548	453	465	410	430	446	374	484	438	441	281	372	315
3046	376	212	289	309	250	204	220	211	266	274	238	272	258	256	150	214	176
2488	377	235	294	374	298	249	245	199	164	172	186	162	175	185	122	158	185
21	1	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	4
10	---	---	---	8	1	---	---	---	---	---	---	---	---	---	---	---	8
6	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
4	---	---	---	2	1	---	---	---	---	---	---	---	---	---	---	---	2
105	26	21	15	17	17	15	10	16	27	15	16	18	16	16	12	6	15
54	18	11	7	8	7	7	4	10	21	9	12	11	8	10	8	4	11
49	12	10	8	14	10	8	6	6	6	6	4	7	8	6	4	2	4
2	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	---	1	1	1	2	3	---	---	---	1	---	---	---	---	---	---	---
7	---	---	---	1	2	2	---	---	---	---	---	---	---	---	---	---	---
3	---	1	1	---	---	1	---	---	---	1	---	---	---	---	---	---	---
12	2	1	2	2	1	1	3	1	1	---	---	2	1	---	1	2	1
6	1	---	1	---	---	---	2	---	1	---	---	2	---	---	---	2	1
6	1	1	1	2	1	1	1	1	---	---	---	1	---	---	1	---	---
74	9	5	4	8	10	8	7	7	9	8	7	8	11	14	2	9	3
40	4	2	1	2	3	---	3	4	5	5	4	5	3	6	2	6	3
34	5	3	3	6	7	5	4	3	4	3	3	3	3	3	---	3	---
193	22	12	18	20	14	11	15	11	8	9	9	6	7	4	4	3	2
114	11	8	9	11	6	7	12	5	7	8	6	6	8	2	3	2	1
79	11	4	4	9	5	4	3	6	1	1	3	---	4	2	1	1	1

TABLE X.—CONTINUED.—*Deaths by Counties,*

COUNTIES.	SEX.	Year 1872.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Wayne.....	Total	1,761	75	111	134	145	124	97	186	213	166	162	181	196	1
	Males	1,010	42	68	75	81	68	54	107	123	113	104	74	111	..
	Fe's..	746	32	48	59	64	61	42	79	90	73	58	55	84	1
	Unk..	5	1	---	---	---	---	1	---	---	---	---	2	1	..
Wexford.. a	Total	21	1	3	1	2	1	---	2	4	---	3	---	4	..
	Males	10	---	2	1	1	1	---	---	1	---	2	---	2	..
	Fe's..	11	1	1	---	1	---	---	2	3	---	1	---	2	..

* Except of townships not represented by returns of deaths in 1872. See Exhibit H.

by Sex, by Months, and by Age.

Ages.

Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
29	1	2	1	3	---	5	1	4	2	1	1	2	1	1	---	2	3
15	---	1	---	3	---	2	---	1	2	1	1	2	1	1	---	2	1
14	1	1	1	---	---	3	1	3	---	---	---	---	---	---	---	---	2
84	15	7	9	24	16	10	9	10	10	13	10	18	13	15	13	19	5
36	9	4	4	11	3	3	3	7	5	5	5	7	10	5	7	8	4
47	6	3	5	13	13	7	6	3	5	8	5	11	3	10	6	11	1
1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
52	10	2	5	7	5	6	6	4	4	4	2	1	5	1	1	2	4
28	5	2	1	5	2	1	4	3	2	3	2	1	5	1	---	---	3
30	5	---	4	2	3	5	2	1	2	1	---	---	---	---	1	2	---
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9	---	---	2	---	1	---	---	---	---	1	1	---	---	---	---	1	---
3	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---
6	---	---	2	---	1	---	---	---	---	---	---	---	---	---	---	1	---
18	2	1	2	1	---	1	---	---	---	---	---	1	---	1	---	---	1
12	1	---	---	1	---	1	---	---	---	---	---	1	---	1	---	---	1
6	1	1	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
195	21	23	14	13	18	13	19	12	10	10	10	5	10	12	6	10	5
109	9	15	11	9	9	6	9	4	4	7	6	1	7	6	4	7	3
86	12	8	3	4	9	7	10	8	6	3	4	4	3	6	2	3	2
6	---	---	---	---	---	2	---	1	1	1	---	---	---	---	---	---	---
1	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---
5	---	---	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---
250	37	21	18	24	31	20	22	20	21	19	14	11	13	9	6	6	11
143	20	7	10	14	17	9	17	13	16	13	8	6	9	6	3	3	7
107	17	14	8	10	14	11	5	7	5	6	6	5	4	3	3	3	4

TABLE XI.—Deaths in Michigan during the Year 1872, distinguishing the Color by Number and Proportion of each Sex, and by Sex, the Per Cent. of Deaths of each Color to Total of All Colors, and Per Cent. of Inhabitants of each Color to Total of All Colors, June 1, 1870.

COLOR.	SEX.	Number of Deaths Returned.	Per Cent. of Each Sex to Total of Both Sexes	Males to 100 Females.	Per Cent. of Deaths of each Color to Total of all Colors by Sex.	Per Ct. of Inhabitants of each Color to Total of all Colors by Sex, June 1, 1870.
All Colors.....	Total.....	18,871	-----	-----	100.00	100.00
	Males.....	7,182	58.82	116.53	100.00	100.00
	Females...	6,162	46.18	-----	100.00	100.00
	Unknown..	27	-----	-----	-----	-----
White	Total.....	18,000	-----	-----	97.28	95.60
	Males.....	6,979	58.75	116.20	97.17	95.61
	Females...	6,006	46.25	-----	97.47	96.29
	Unknown..	15	-----	-----	-----	-----
Black	Total.....	109	-----	-----	.82	.47
	Males.....	68	62.96	170.00	.94	.49
	Females...	40	37.04	-----	.65	.44
	Unknown..	1	-----	-----	-----	-----
Mulatto.....	Total.....	84	-----	-----	.25	.33
	Males.....	21	61.76	161.54	.29	.51
	Females...	18	38.28	-----	.22	.34
Indian	Total.....	143	-----	-----	1.07	.40
	Males.....	82	57.84	184.48	1.14	.33
	Females...	61	42.66	-----	.99	.43
Unknown	Total.....	85	-----	-----	.64	-----
	Males.....	32	43.24	76.19	.45	-----
	Females...	42	56.76	-----	.68	-----
	Unknown..	11	-----	-----	-----	-----
Black and Mulatto.....	Total.....	143	-----	-----	1.07	.99
	Males.....	89	62.68	167.92	1.24	1.00
	Females...	58	37.32	-----	.86	.98
	Unknown..	1	-----	-----	-----	-----

The last two columns of Table XI. enable us to study the relation which the per cent. of deaths of persons of each color to total of all colors bears to the per cent. of inhabitants of each color to total of all colors. The proportion of white persons is less among the decedents than among the inhabitants. It should be borne in mind that it is highly probable that nearly all the decedents whose color was not reported were white. This will increase the percentage of the white decedents somewhat, still leaving it less than that of the white inhabitants. It is also possible that since 1870 the proportion of black inhabitants of Michigan has been increased, which, if true, will diminish the excess of the proportion of black decedents over the black inhabitants. After these allowances have been made, it is probable that of the black persons and the Indians the proportion is greater among the decedents than among the inhabitants. The death-rate of the native-born colored inhabitants in the United States during the year ending June 1, 1870, as computed from the Ninth U. S. Census, V. S. Volume, Table VII., page 306, and Table XXIX., page 648, was 1.38 per cent.; and the death-rate of all inhabitants, as computed from the same volume, Table II., page 6, and Table XXIII., page 560, was 1.28 per cent.

Because of the imperfect distinction between black and mulatto persons, it is requisite that the two classes should be, and in Table XI. they are, grouped together.

The compilation of deaths by races by diseases would afford opportunity for valuable study in this connection. This distinction of race would be complicated somewhat by the different modes of life, occupation, etc., but these influences could eventually be separately determined.

TABLE XII.—Exhibiting, by Number and by Sex, for the State and Counties, the Color of all persons returned as having died in Michigan during the year ending December 31, 1872.

STATE AND COUNTIES.	ALL COLORS.			WHITE.			BLACK.			MULATTO.			INDIAN.			UNKNOWN.			REMARKS.							
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.		Females.	Unknown.					
State.....	13,871	7,182	6,162	27	13,000	6,979	6,006	15	109	68	40	1	34	91	18	..	148	82	61	..	85	82	42	11		
Alcona.....	17	8	9	..	17	8	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	"Colored."
Allegan.....	388	310	170	8	378	307	169	9	1	1	..	..	..	..	..	..	3	2	1	..	..	..	..	..	..
Alpena.....	19	12	7	..	19	12	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Antrim.....	38	16	17	..	33	16	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barry.....	208	98	105	..	201	97	104	..	1	..	1	..	1	1	..	..	..	..	..	..	..	..	..	..	..	Octoroon.
Bay.....	368	221	143	..	343	208	184	..	1	1	..	..	1	1	..	..	9	4	5	..	..	..	10	7	3	
Benzie.....	75	41	34	..	74	41	33	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..
Berrien.....	442	241	201	..	436	239	197	..	..	..	..	..	3	2	..	..	..	..	..	..	..	..	4	4	..	
Branch.....	301	164	136	1	300	164	136	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Calhoun.....	357	181	176	..	343	176	173	..	4	1	3	..	3	3	..	..	3	2	1	..	..	..	..	..	..	"Copper-colored."
Cass.....	156	84	69	1	149	81	67	1	5	3	3	..	3	3	..	..	..	..	..	..	..	..	..	..	..	d 1 "Colored."
Charlevoix...	33	18	15	..	29	16	13	4	3	3	
Cheboygan...	19	10	9	..	19	10	9	

Chippewa	22	19	18	..	30	13	8
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TABLE XII.—CONTINUED.—Deaths, by Counties, by Color, and by Sex.

COUNTIES.	ALL COLORS.			WHITE.			BLACK.			MULATTO.			INDIAN.			UNKNOWN.			REMARKS.	
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.		Females.
Lake.....	9	6	3	0	9	6	3	0	0	0	0	0	0	0	0	0	0	0	0	No returns of deaths to this Department.
Lapeer.....	219	106	113	0	219	106	113	0	0	0	0	0	0	0	0	0	0	0	0	
Leelanaw....	72	38	34	0	49	23	21	0	0	0	0	0	0	0	0	0	0	0	0	
Lenawee.....	362	193	179	0	317	176	171	0	0	0	0	0	0	0	0	0	0	0	0	
Livingston...	136	73	63	0	136	73	63	0	0	0	0	0	0	0	0	0	0	0	0	
Mackinac... ^a	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macomb.....	137	102	85	0	133	100	83	0	0	0	0	0	0	0	0	0	0	0	0	
Manistee....	107	58	49	0	107	58	49	0	0	0	0	0	0	0	0	0	0	0	0	
Manitou.....	3	1	2	0	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	
Marquette....	238	163	125	0	237	162	125	0	0	0	0	0	0	0	0	0	0	0	0	
Mason.....	53	29	26	0	53	27	26	0	0	0	0	0	0	0	0	0	0	0	0	White and "Red."
Mecosta.....	57	29	29	0	56	27	29	0	0	0	0	0	0	0	0	0	0	0	0	
Menominee..	19	14	4	0	17	18	4	0	0	0	0	0	0	0	0	0	0	0	0	
Midland.....	67	36	30	1	65	35	30	0	0	0	0	0	0	0	0	0	0	0	0	
Missaukee....	8	4	4	0	8	4	4	0	0	0	0	0	0	0	0	0	0	0	0	

DEATHS BY NATIVITY AND PARENT-NATIVITY OF DECEDENTS.

It has been asserted, recklessly, as the compiler thinks, that the inhabitants of these United States are not reproductively self-sustaining; that the population would decrease except for the influx of foreigners by immigration. So far as relates to Michigan, the truth on this point can probably be ascertained eventually by means of the vital statistics of the State, although not without considerable labor, and as yet it must be acknowledged the data therefor are not as perfect and certain as we could wish. Nevertheless it seems important that an attempt be made, if only to show how desirable it is that the constantly increasing accuracy of our statistics be maintained, that we may thus finally reach true and reliable statements. The following, until Table XIII. is reached, is therefore offered, not as conclusive, but with the hope that it may be found suggestive, and tending to lead up toward the truth which is the object of the search.

Exhibit 6 is a Life Table for males in Michigan, wherein the assumed number of births annually is the number of male children believed to have been born of native-born mothers in Michigan, during the year 1872. The main purpose of its construction is to ascertain the constant population which that number of annual births of males would maintain in Michigan according to the death-rate believed to prevail among males in this State. The footing of the column headed "Number Living at beginning of each Year of Age," shows that the constant male population which would be maintained by that number of births of males annually would be 556,374. A comparison of this number with the number of native-born male inhabitants of Michigan, June 1, 1870, can be made, and such a comparison will aid in forming an opinion of the truthfulness of the proposition that the natural increase of our native inhabitants by births is sufficient not only to maintain, but to add very largely to our male population. Turning to page 46 of this Report, it may be seen that the number of native-born male inhabitants of Michigan, June 1, 1870, in

counties and townships represented by returns of births in 1872, was 465,386. If this number be subtracted from the 556,374 constant male population that would be maintained according to Exhibit 6, it appears that, the male population that would be maintained by the male births of native-born mothers is greater by 90,988 individuals than the male population actually found in 1870, in that part of Michigan represented by births in 1872, resulting from all births in this country, of native and of foreign-born parents. If the foreign-born males be added, the total male population will only exceed by 53,572 the male population that, according to Exhibit 6, would be maintained by the males born of the native-born mothers alone.

If 556,374 represents the number of inhabitants in a fixed population maintained by 12,560 annual births, a computation shows that, by the same death-rate, in order to maintain the 465,386 native born male inhabitants enumerated in the census of 1870 in that part of Michigan represented by births in 1872, the number of annual births required would be 10,506. It is perhaps possible to form some approximate idea of the number of inhabitants in which these supposed 10,506 births occurred. If so, the idea includes that of the rate of the natural growth of our native male population, and consequently is of importance. In order to find the birth-rate of males to native male inhabitants we may first learn the number of native male inhabitants in 1872 to which were born the 12,560 males in that year. Multiplying the 12,560 births by 100 and dividing by the 465,386 native male inhabitants June 1, 1870, it is found that the per cent. of births is 2.697. By the Life Table VII., page 200, it will be seen that the death-rate of males in Michigan is there shown to be 1.73 per cent. of the inhabitants. If we subtract 1.73 from 2.70, the difference is .97 per cent., representing the annual increase, per centum. This is a little too large, because we have used the population June 1, 1870, instead of June 1, 1872 as should have been done if it were possible. If now we increase the native male population

June 1, 1870, by .97 per cent. for the year 1871, and again by the same per cent. to find the probable native male population June 1, 1872, the number appears to be 474,468; making a little allowance for too large per cent. of increase, say 474,000. The 12,560 estimated births of males is found to be 2.65 per cent. of that population. Subtracting the 1.73 per cent. death-rate from this, it leaves .92 per cent. as the annual rate of increase, instead of .97 as found by using the population enumerated in 1870. If the 10,506 annual births which resulted in the 465,386 native males June 1, 1870, were, as just estimated, 2.65 per cent. of the native male inhabitants at that time, then such inhabitants then numbered 396,453, which is 68,933 less than the number in 1870. It does not necessarily follow that these all resided in this State at that time. Some of the 465,386 in 1870 moved into the State after their birth.

Just how far back in time this previous generation existed may be estimated by means of the estimated rate of annual increase. Beginning with 396,453 and increasing it annually by .92 per cent., it appears that in seventeen years the inhabitants would equal 463,236, and in eighteen years would equal 467,499, indicating that the 68,933 increase in the native male inhabitants has been accomplished in about seventeen and one-half years,—between the years 1852 and June 1, 1870. Beginning with the 474,000 estimated native male inhabitants in 1872, and increasing it annually by .92 per cent., it is found that in seventeen years the inhabitants would equal 553,840, and in eighteen years, 558,935. The constant number of inhabitants maintained, according to Exhibit 6, by the 12,560 male children believed to have been born in 1872 of the native-born mothers in Michigan, was 556,374. This is 82,374 more than the 474,000 in 1872, and by the above computation it appears that it would be reached in about seventeen and one-half years. By turning to the beginning of the Life Table, page 196, it may be seen that the average length of a generation of males in Michigan, according to the best evidence yet

available, is 43.79 years, although at birth a male may in this State reasonably be expected to live 53.05 years.

Without going to the trouble and great labor of computing another Life Table to show the constant female population maintained by the female children believed to have been born of native mothers in Michigan in 1872, this may be arrived at with sufficient accuracy by means of proportion. The number of such female children born in 1872 is believed to have been 11,760. According to the Life Table VII., pages 196-200, the constant female population maintained by 141,731 annual births in Michigan is 6,341,543.

Then, $141,731 : 11,760 :: 6,341,543 : x$, and x is found to equal 526,183. This is the native female population that would be maintained by 11,760 annual births continued year after year, and 11,760 is the number of female children believed to have been born of native-born mothers in 1872.

Turning to page 46 of this Report we find that the native female inhabitants of counties and townships of Michigan represented by returns of births in 1872 appear to have been, in 1870, 443,239, and this is 82,944 less than it appears above would be maintained by such a number of births annually as is believed to have occurred in 1872 of native-born mothers alone. The subject might be continued, and studied in the manner suggested in connection with the male children, but it is believed that enough has been stated to enable those sufficiently interested to continue the study if they choose.

It is worthy of notice that among the native-born inhabitants of counties and townships in Michigan represented by returns of births in 1872, the relation of the sexes is almost precisely the same as it appears would exist between them in such a population as by the Life Tables of males and females in this State would be maintained by births the same as the births believed to have occurred of native mothers in 1872. The inhabitants were: males, 465,386; females, 443,239; the females being 95.24 per cent. of the males. The population resulting from the births of 12,560 males and 11,760 females would, according to the tables, be: males, 556,374; females, 526,183; the females being 94.57 per cent. of the males.

EXHIBIT 6.—*A Life Table, for Males, Constructed upon the basis of the Death-rate in Michigan during the year 1870, as Computed after Equalizing the Male Population represented by Deaths, and Correcting the Deaths for omissions because of time before enumeration; calculated upon the assumed number of 12,560 Males born of Native-born Mothers.**

Age in Years.	Death-rate. Number of Deaths to 100 Living.	OF 12,560 BORN :		Age in Years.	Death-rate. Number of Deaths to 100 Living.	OF 12,560 BORN :	
		Number Living at beginning of each Year of Age.	Number Dying at each Age.			Number Living at beginning of each Year of Age.	Number Dying at each Age.
—1.....	16.91	12,560	2,124	92.....	.73	8,279	60
1.....	5.62	10,436	537	93.....	.73	8,219	64
2.....	2.98	9,899	294	94.....	.66	8,155	54
3.....	2.27	9,555	217	95.....	.61	8,101	49
4.....	1.40	9,338	131	96.....	.60	8,052	56
5.....	1.17	9,207	108	97.....	.64	7,996	51
6.....	.85	9,099	77	98.....	.67	7,945	53
7.....	.59	9,022	58	99.....	.68	7,893	50
8.....	.67	8,969	60	100.....	.59	7,842	46
9.....	.54	8,909	48	101.....	.63	7,796	49
10.....	.56	8,861	50	102.....	.59	7,747	60
11.....	.40	8,811	35	103.....	.71	7,678	55
12.....	.59	8,776	46	104.....	.63	7,623	47
13.....	.40	8,730	35	105.....	.52	7,576	63
14.....	.41	8,695	36	106.....	.61	7,514	46
15.....	.39	8,659	34	107.....	.63	7,468	47
16.....	.43	8,625	36	108.....	1.00	7,421	74
17.....	.57	8,589	49	109.....	.68	7,347	46
18.....	.47	8,540	40	110.....	.93	7,301	67
19.....	.33	8,500	75	111.....	.64	7,234	46
20.....	.69	8,425	58	112.....	.93	7,183	67
21.....	1.05	8,367	58	113.....	1.08	7,131	77

* The number of male children returned as having been born in Michigan in 1873 of native-born mothers was 8,060. See page 44 of this Report. If this number be increased by 53.33 per cent. (it equals 12,360)—the number used in this table, and the probable number of such births*, although the figures for per cent. of increase might have been 53.74 instead of 53.33. For methods of correction of births for 1873, see pages 9-15 of this Report.

EXHIBIT 6.—CONTINUED.

Age in Years.	Death-rate. Number of Deaths to 100 Living.	Of 12,560 Born :		Age in Years.	Death-rate. Number of Deaths to 100 Living.	Of 12,560 Born :	
		Number Living at beginning of each Year of Age.	Number Dying at each Age.			Number Living at beginning of each Year of Age.	Number Dying at each Age.
44.....	1.15	7,044	81	74.....	7.18	2,889	204
45.....	1.10	6,968	77	75.....	7.97	2,685	210
46.....	1.10	6,886	76	76.....	10.10	2,425	245
47.....	.85	6,810	58	77.....	11.74	2,180	256
48.....	1.08	6,753	70	78.....	10.58	1,924	208
49.....	1.36	6,683	84	79.....	12.26	1,721	211
50.....	1.75	6,598	115	80.....	12.60	1,510	190
51.....	1.34	6,493	50	81.....	12.94	1,320	171
52.....	1.85	6,408	118	82.....	14.23	1,149	164
53.....	1.38	6,285	96	83.....	14.53	985	143
54.....	1.73	6,189	110	84.....	15.70	843	132
55.....	2.21	6,079	134	85.....	15.91	710	113
56.....	1.95	5,945	116	86.....	16.12	597	96
57.....	2.22	5,829	170	87.....	17.10	501	86
58.....	2.50	5,650	141	88.....	18.08	415	75
59.....	1.92	5,518	106	89.....	19.06	340	65
60.....	2.42	5,412	131	90.....	19.71	275	54
61.....	2.42	5,281	123	91.....	20.35	221	45
62.....	2.79	5,153	195	92.....	21.00	176	37
63.....	2.83	4,958	140	93.....	21.65	139	30
64.....	2.33	4,813	160	94.....	22.30	109	24
65.....	4.70	4,653	219	95.....	22.95	85	20
66.....	3.83	4,439	170	96.....	23.59	65	15
67.....	3.96	4,269	169	97.....	24.24	50	12
68.....	2.49	4,100	102	98.....	24.89	38	9
69.....	4.17	3,998	167	99.....	25.54	29	7
70.....	6.98	3,881	265	100.....	26.19	22	6
71.....	6.83	3,566	223	101.....	26.83	16	4
72.....	8.53	3,333	265	102.....	27.43	12	3
73.....	7.01	3,058	214	103.....	28.13	9	3

EXHIBIT 6.—CONTINUED.

Age in Years.	Death-rate. Number of Deaths to 100 Living.	Of 12,560 BORN :		Age in Years.	Death-rate. Number of Deaths to 100 Living.	Of 12,560 BORN :	
		Number Living at beginning of each Year of Age.	Number Dying at Each Age.			Number Living at beginning of each Year of Age.	Number Dying at each Age.
104.....	28.78	6	2	110.....	32.67	1	0
105.....	29.48	4	1	111.....	66.83	1	1
106.....	30.07	3	1	112.....	100.00	-----	-----
107.....	30.73	2	1				
108.....	31.37	1	0	All Ages	1.73	556,374	-----
109.....	32.02	1	0				

For remarks on Exhibit 6, see pages 246-249 of this Report.

TABLE XIII.—*Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of all returned as having died in Michigan during the year ending December 31, 1872.*

STATE AND COUNTIES.	ALL NATIVITIES.				NATIVE.				FOREIGN.			UNKNOWN.		
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.
STATE.....	18371	7189	6162	27	10812	5647	5188	27	2146	1308	843	418	232	181
Alcona	17	8	9	---	11	5	6	---	5	3	2	1	---	1
Allegan	338	210	170	3	302	166	139	3	73	39	34	8	5	3
Alpena	19	12	7	---	15	10	5	---	2	2	---	2	---	2
Antrim	38	16	17	---	22	10	12	---	10	5	5	1	1	---
Barry	208	98	105	---	192	90	102	---	10	7	3	1	1	---
Bay	363	221	142	---	261	148	113	---	90	68	27	12	10	3
Benzie	75	41	34	---	58	33	25	---	14	8	6	3	---	3
Berrien	442	241	201	---	394	210	184	---	38	24	14	10	7	3
Branch	301	164	136	1	277	149	127	1	14	8	6	10	7	3
Calhoun	357	181	176	---	306	158	158	---	45	25	20	6	3	3
Casa	156	86	69	1	142	77	64	1	8	6	2	6	3	3
Charlevoix ..	38	18	15	---	30	17	13	---	3	1	2	---	---	---
Cheboygan ..	19	10	9	---	11	6	5	---	4	2	2	4	2	2
Chippewa ..	32	19	13	---	18	13	5	---	18	6	7	1	---	1
Clare	8	5	3	---	7	4	3	---	1	1	---	---	---	---
Clinton	238	141	112	---	228	124	104	---	23	15	8	2	2	---
Delta	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Eaton	268	135	126	2	231	115	114	2	18	12	6	14	5	6
Emmet	38	29	9	---	33	25	8	---	5	4	1	---	---	---
Genesee	277	145	131	1	242	125	116	1	34	19	15	1	1	---
Gr. Traverse ..	74	32	42	---	63	25	38	---	9	6	3	2	1	1
Gratiot	171	89	82	---	162	88	79	---	6	4	2	3	2	1
Hillsdale	331	161	170	---	291	140	151	---	22	14	8	18	7	11
Houghton	128	79	49	---	105	62	43	---	22	17	5	1	---	1
Huron	118	66	47	---	79	49	30	---	38	16	17	1	1	---
Ingham	306	152	151	3	273	135	135	3	29	15	14	4	2	3

* No returns of deaths to this Department.

TABLE XIII.—CONTINUED.

COUNTIES.	ALL NATIVITIES.				NATIVE.				FOREIGN.			UNKNOWN.		
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.
Ionis	304	159	143	2	276	144	130	2	27	15	12	1	---	1
Iosco	89	19	20	---	80	18	17	---	4	8	1	5	8	2
Isabella	49	25	24	---	46	24	22	---	1	---	1	2	1	1
Jackson	865	199	165	1	824	178	150	1	84	28	11	7	3	4
Kalamazoo ..	839	192	147	---	736	163	124	---	49	28	21	4	2	3
Kalkaska	21	10	11	---	17	7	10	---	4	8	1	---	---	---
Kent	567	296	269	2	468	245	226	2	75	47	28	9	4	5
Keweenaw	39	26	11	2	16	10	4	2	17	13	4	6	8	3
Lake	9	6	3	---	6	4	2	---	2	1	1	1	1	---
Lapeer	219	106	113	---	173	89	83	---	47	17	30	---	---	---
Leelanaw	72	38	34	---	58	27	31	---	14	11	3	---	---	---
Lenawee	362	138	179	---	321	161	160	---	37	19	18	4	3	1
Livingston ..	136	73	63	---	118	60	58	---	19	12	7	4	1	3
Mackinac	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Macomb	187	102	85	---	155	81	74	---	29	18	11	3	3	---
Manistee	107	58	49	---	86	44	42	---	16	12	4	5	2	3
Manitou	3	1	2	---	3	1	2	---	---	---	---	---	---	---
Marquette	293	163	128	---	201	97	104	---	90	68	22	2	---	2
Mason	55	29	26	---	47	24	23	---	7	4	3	1	1	---
Mecosta	57	28	29	---	48	22	21	---	13	6	7	1	---	1
Menominee ..	18	14	4	---	17	13	4	---	1	1	---	---	---	---
Midland	67	36	30	1	57	33	23	1	8	3	5	2	---	2
Missaukee	8	4	4	---	5	3	2	---	3	1	2	---	---	---
Monroe	191	98	93	---	156	76	80	---	16	8	8	19	9	10
Montcalm	217	112	105	---	201	99	102	---	14	12	2	2	1	1
Muskegon	169	90	79	---	132	67	65	---	36	22	14	1	1	---
Newaygo	59	33	26	---	50	27	23	---	8	6	2	1	---	1
Oakland	300	136	163	1	247	108	138	1	43	24	19	10	4	6
Oceana	127	68	58	1	106	56	49	1	18	9	4	8	8	5
Ontonagon ..	15	5	10	---	11	3	8	---	3	1	2	1	1	---
Osceola	28	18	10	---	22	13	9	---	5	4	1	1	1	---

* No returns of deaths to this Department.

TABLE XIII.—CONTINUED.

COUNTIES.	[ALL NATIVITIES.				NATIVE.				FOREIGN.			UNKNOWN.		
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.
Ottawa.....	406	226	180	----	305	168	137	----	90	52	38	11	6	5
Presque Isle..	11	4	7	----	7	2	5	----	4	2	2	----	----	----
Saginaw.....	553	331	232	----	408	229	179	----	137	84	53	8	8	----
Sanilac	144	69	75	----	59	43	46	----	52	24	28	3	2	1
Schoolcraft ..	7	6	1	----	5	4	1	----	----	----	----	2	2	----
Shiawassee ..	167	59	78	----	143	72	71	----	20	15	5	4	2	2
St. Clair.....	442	234	207	1	319	168	150	1	110	60	50	13	6	7
St. Joseph....	211	112	99	----	137	98	59	----	20	13	7	4	1	3
Tuscola.....	137	59	78	----	111	46	65	----	24	13	11	2	----	2
Van Buren....	323	174	154	----	300	157	143	----	21	13	8	7	4	3
Washtenaw...	366	185	181	----	284	140	144	----	68	38	30	14	7	7
Wayne.....	1761	1010	746	5	1197	651	541	5	431	275	156	133	64	49
Wexford.....	21	10	11	----	17	9	8	----	3	1	2	1	----	1

CAUSES OF DEATH.

The same classification of causes of death is adopted in this as in former Reports in this State, being the same as that used in Massachusetts and some other States, and as employed by the Registrar-General of England. A change would make it difficult to compare classes for the different years and for different States. Table XIV. exhibits the number of deaths from all causes and from each class of causes, and the per cent. of deaths from each class of causes to deaths from all causes, for each of the years 1869, 1870, 1871, and 1872. It will be seen that Class I.—Zymotic Diseases—shows the greatest proportion of deaths in each year, while in 1872 its number and proportion is greater than in any of the other years, 1870 being nearest it, and 1869 showing nearly the same proportion

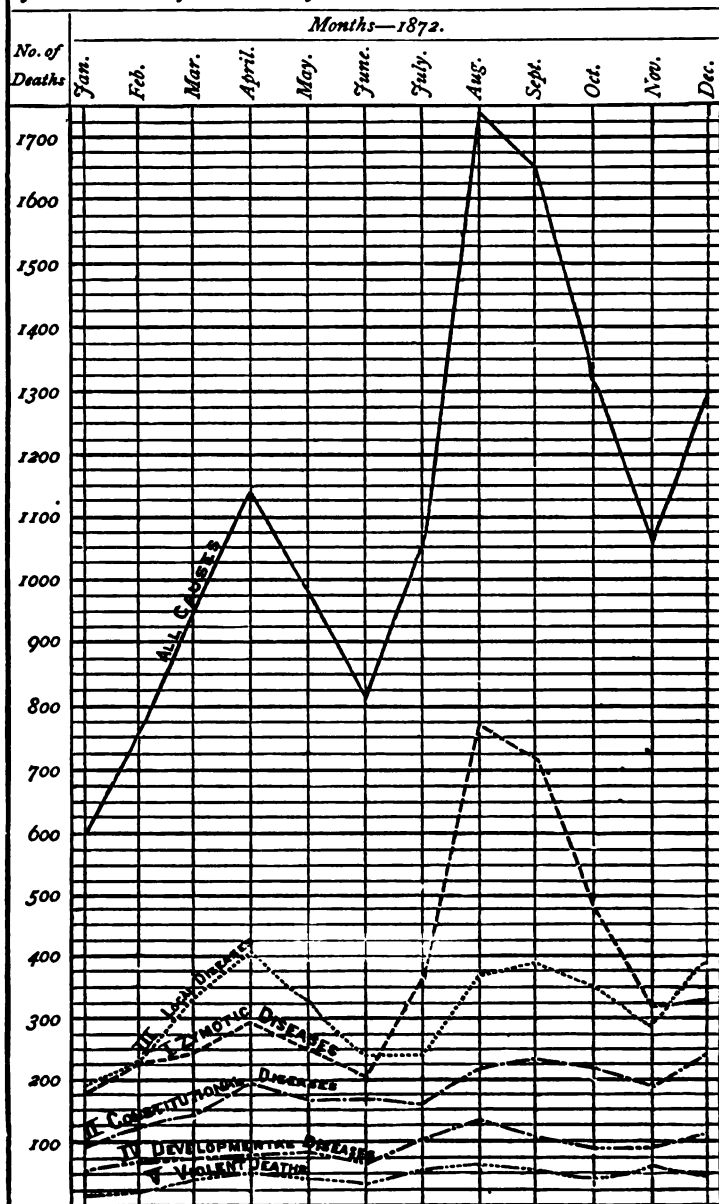
as 1871. Class III.—Local Diseases—shows the next highest proportion of deaths in each year, 1872 being in excess of each of the other years, 1871 next in order, and 1869 being nearly the same as 1870. The proportion of the unknown and unclassified has been decreasing in proportion every year,—a hopeful feature in the work of collecting these statistics.

TABLE XIV.—*Number of Deaths in Michigan from all Causes, and from each Class of causes, and Per Cent. of Deaths from each Class of Causes to Deaths from all Causes, for each of the Years 1869, 1870, 1871, and 1872.*

CAUSES OF DEATH— CLASSES.	Michigan for the Year 1869.		Michigan for the Year 1870.		Michigan for the Year 1871.		Michigan for the Year 1872.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
All causes.....	9,145	100.00	10,766	100.00	9,729	100.00	12,371	100.00
I.—Zymotic Diseases.....	2,518	27.47	3,429	31.85	2,642	27.16	4,399	35.59
II.—Constitutional Diseases ..	1,734	18.96	2,072	19.24	1,522	15.64	2,146	17.35
III.—Local Diseases.....	2,384	25.95	2,609	24.24	2,619	26.92	3,762	30.44
IV.—Developmental Diseases .	814	8.90	840	7.80	1,002	10.30	1,063	8.59
V.—Violent Deaths	468	5.11	495	4.60	539	5.54	541	4.42
Unknown and Unclassified....	1,282	14.01	1,231	11.43	1,074	11.04	1,460	11.88

DIAGRAM NO. 4.

Deaths in Michigan in 1872:—Exhibiting the number in each Month, from each Class of Causes, and from all Causes.



Designed by Henry B. Baker.

EXHIBIT 7.—By Months, the Number of Deaths in Michigan from All Causes, and from Each Class of Causes for the Year 1872.

CAUSES OF DEATH—CLASSES.	YEAR 1872.	MONTHS OF DEATH.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All Causes.....	13,371	602	756	941	1,140	979	515	1,050	1,783	1,653	1,331	1,053	1,333	30
I.—Zymotic Diseases.....	4,399	180	229	243	293	253	208	367	766	721	472	323	330	9
II.—Constitutional Diseases.....	2,146	96	121	141	194	167	167	163	214	230	218	192	240	4
III.—Local Diseases.....	8,762	197	231	333	404	327	246	341	365	338	352	235	337	6
IV.—Developmental Diseases.....	1,063	52	69	74	80	83	63	106	132	107	83	89	114	2
V.—Violent Deaths.....	541	18	23	42	49	43	36	59	63	55	43	61	43	2
Unknown and Unclassified.....	1,460	59	84	108	120	107	90	115	195	157	148	108	157	7

Exhibit 7 is a new one, and shows the relation of the several classes of causes of death to the season of year by months. Classes II., IV., and V. do not differ greatly in this relation, and Class III. does not differ very greatly from these; but Class I. sustains quite different relations. The study is rendered much easier by an examination of Diagram No. 4, which has been suggested by Mr. Louis DeLamarter, of the State Department, and which graphically represents the data contained in Exhibit 7. Class I. represents the largest number of deaths of any class, and to some extent decides the relation of total deaths to the months, although the rise in April seems to be largely due to the local diseases—Class III.—and in December to the constitutional and local diseases—Classes II. and III. By examining the Diagram it will be seen that the variation by months is mostly confined to the diseases classed as Zymotic and Local. Just what diseases are so classed can be seen by referring to Table XVI.

EXHIBIT 8.—*Order of Succession, and Number of Deaths from each, of Five Groups of Causes of Death for the Years 1869, 1870, 1871, and 1872, in Michigan.*

ORDER.	1869.		1870.		1871.		1872.	
1	Lung dis's...	1,861	Lung dis's...	2,094	Lung dis's...	2,013	Lung dis's...	2,441
2	Bowel dis's.	1,331	Bowel dis's.	1,853	Bowel dis's.	1,153	Bowel dis's.	2,273
3	Brain dis's...	995	Brain dis's...	1,133	Brain dis's...	1,094	Brain dis's...	1,779
4	Heart dis's...	276	Heart dis's...	316	Throat dis's.	293	Throat dis's.	391
5	Throat dis's.	220	Throat dis's.	272	Heart dis's...	294	Heart dis's...	373

Exhibit 8 is a new one, designed to show by years the relation which each of five groups of causes of death bear to each other. The grouping is not in accordance with previous systems of classification, but by part of body affected, and it is hoped that it may prove of interest when modified to combine with localities, months, etc., and eventually tend to advance our knowledge of the relations of diseases to localities, seasons, and years.

EXHIBIT J.—*Eleven Geographical Divisions of the State, formed for the purpose of facilitating the study of Causes of Death, with a list of Counties included in each Division.*

Upper Peninsula.	North-western.	Northern.	North-eastern.	Western.	Central.	Northern Central.	Bay and Eastern.	South-western.	South-eastern.	Southern Central.
Chippewa.	Benzie.	Antrim.	Alcona.	Kent.	Barry.	Clare. ^f	Bay.	Allegan.	Macomb.	Branch.
Delta.*	G'd Traverse.	Charlevoix. ^h	Alpena. ⁱ	Lake. ^l	Clinton.	Isabella.	Huron.	Berrien.	Monroe. ^x	Calhoun.
Houghton. ^a	Leelanaw.	Cheboygan.	Iosco. ^j	Mason. ^m	Eaton.	Meosta. ^s	Lapeer.	Cass. ^w	Oakland.	Hillsdale.
Keweenaw. ^b	Manistee. ^d	Emmet.	Presque Isle. ^k	Muskegon. ⁿ	Genesee.	Midland. ^t	Saginaw. ^u	Van Buren.	Wayne.	Jackson.
Mackinac.*	Manitou. ^e	Kalkaska.		Newaygo. ^o	Grafton.		Sanilac.			Kalamazoo.
Marquette. ^c	Missaukee. ^f			Oceana.	Ingham.		St. Clair.			Lenawee.
Menominee.	Wexford. ^s			Oscoda. ^p	Ionia.		Tuscola. ^v			St. Joseph.
Ontonagon.				Ottawa.	Livingston.					Washtenaw. ^y
Schoolcraft.					Montcalm. ^q					
					Shiawassee.					

No returns of deaths from the following townships:

^a Franklin. ^b Eagle Harbor and Grant. ^c Alpena City, 8d Ward. ^d Miller, Morilla, Springdale, and Strongach. ^e Galilee. ^f Reeder.
^g Cham Lake, Cleon, Colfax, and Henderson. ^h Norwood. ⁱ Ossineke. ^j Grant and Oscoda. ^k Presque Isle. ^l Yates. ^m Branch, Free
 Soil, Hamlet, and Pere Marquette. ⁿ Cedar Creek and Laketon. ^o Beaver, Bridgeton, Grant, and Norwich. ^p Cedar, Richmond, and Syvan.
^q Home and Montcalm. ^r Sheridan. ^s Grant. ^t Homer and Lincoln. ^u Albion. ^v Ellington. ^w Mason. ^x Ash, Exeter, Frenchtown,
 Milan, and Raisinville. ^y Freedom.
 * No returns of deaths from the county.

TABLE XV.—*Exhibiting for the State and each of Eleven Geographical Divisions of the State, the Population June 1, 1870; the Number of Deaths and the Per Cent. of Deaths for each Division to Total Deaths for the State during the year 1872; the Per Cent. of Deaths in 1872 to Population June 1, 1870; also the Per Cent. of Deaths from each Class of Causes to Deaths from all Causes.*

STATE AND GEOGRAPH- ICAL DIVISIONS. ^a	Population June 1, 1870. ^b	DEATHS 1872.		Per Cent. of all Deaths in 1872 to Population in 1870. ^b	PER CENT. OF DEATHS FROM EACH CLASS OF CAUSES TO DEATHS FROM ALL CAUSES, BY GEOGRAPHICAL DIVISIONS.					
		Number.	Per Cent. of Total.		Class I. Zymotic Dis- eases.	Class II. Constitutional Diseases.	Class III. Local Diseases.	Class IV. Developmental Diseases.	Class V. Violent Deaths.	Unknown and Unclassified.
State.....	1,156,053	18,871	100.00	1.15	32.89	16.05	28.14	7.95	4.04	10.92
Up. Peninsula...	34,502	582	3.96	1.46	29.51	10.71	21.99	6.95	8.83	21.99
Northwestern...	17,658	360	2.69	2.04	53.05	11.67	16.39	3.61	5.56	9.73
Northern.....	7,359	144	1.08	1.96	41.66	12.50	15.28	5.56	4.86	20.14
Northeastern...	6,325	86	.64	1.36	51.16	15.12	9.30	5.51	8.14	10.47
Western.....	106,147	1,420	10.62	1.81	36.62	14.01	25.49	9.23	4.30	10.35
North. Central.	12,607	151	1.35	1.44	36.46	14.92	25.41	5.52	3.87	13.81
Central.....	221,476	2,297	17.17	1.04	30.91	16.50	31.74	7.88	3.66	9.81
Bay & Eastern...	149,778	1,971	14.74	1.32	34.40	13.70	26.08	8.87	4.73	12.73
Southwestern...	116,831	1,309	9.78	1.18	30.56	16.35	32.77	7.08	3.13	10.16
South. Central.	274,648	2,632	19.68	.96	31.27	19.11	30.97	6.65	3.23	8.51
Southeastern...	207,229	2,439	18.24	1.18	30.75	17.88	27.14	10.09	3.65	10.99

^a For counties included in each division, see Exhibit J.

^b Except of counties and townships from which no returns of deaths in 1872 were received, for population of which see Exhibit H.

NOTE.—The number of inhabitants deducted from the population of the State for delinquent townships, as shown in Exhibit H, is probably too large, because in some of the delinquent townships it is probable no deaths occurred, but the Supervisors neglected to make an official return stating that fact.

In noting that the relation of deaths returned to the population is 1.15 per cent. in 1872, for the entire State, when in 1871 it was .85 per cent., it should be remembered that while the inhabitants have increased in number no new enumeration was made, so that the deaths in an increased population are placed in relation with the population enumerated in 1870. This will make most difference with those Divisions in which

the increase has been greatest, and probably has some influence in the Northwestern Division, where in 1872 the per cent. is 2.04, when in 1870 it was .964,—less than one-half as great. There are too many varying conditions to render it possible yet to make exact comparisons of the several Divisions, but it is believed that after a series of years the material in Table XV. can be so compared with the population as to gain valuable evidence, as another census will render it possible to estimate approximately the gain in population in the several Divisions.

TABLE XVI.—CAUSES OF DEATH.—NOSOLOGICAL ARRANGEMENT.

Exhibiting the number of Deaths in Michigan, and in each County of the State, during the year 1872, from Specified Causes, Statistically Classified (Stillbirths included).

CAUSES OF DEATH.	COUNTIES.																						STATE.
	Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Kalam.	Emmet.	Genesee.	Gr. Traverse.	Grand.		Hillsdale.
All Causes.....	13,371	17,883	19,38	208	868	75	442	801	357	156	83	19	83	8	238	263	88	277	74	171	881		
Specified Causes.....	11,967	17,829	18,29	186	835	69	402	282	898	145	28	18	25	5	237	237	93	258	69	150	299		
CLASSES.																							
I.—Zymotic Diseases.....	4,399	9	118	14	12	67	188	89	137	96	127	35	21	6	8	112	76	8	65	40	45	94	
II.—Constitutional Diseases.....	2,146	3	72	1	4	36	40	13	59	54	70	29	3	2	4	31	51	6	88	18	14	70	
III.—Local Diseases.....	3,762	2	94	1	10	68	106	7	155	102	94	71	2	5	9	61	82	2	94	12	60	116	
IV.—Developmental Diseases.....	1,063	1	25	1	2	16	30	7	38	24	19	7	1	4	12	12	18	1	26	15	14		
V.—Violent Deaths.....	541	3	19	1	1	4	20	8	11	6	18	8	1	1	10	10	9	8	10	4	4	5	
ORDERS.																							
I.—1. Miasmatic Diseases.....	4,341	9	117	14	12	66	186	89	134	98	124	35	21	6	8	110	76	7	68	39	44	91	
2. Enthetic Diseases.....	9																					1	

4. Diphtheria.....	192	2	2	3	5	1	2	1	3	15	2	1	4	3	1
5. Quinsy.....	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6. Croup.....	102	1	1	2	5	1	6	1	2	2	2	7	7	4	4
7. Whooping Cough.....	192	6	3	1	4	7	1	1	2	1	2	8	1	16	4
8. { Typhus.....	48	1	1	1	1	1	1	1	3	42	2	2	1	1	1
{ Typhoid Fever.....	620	29	1	8	9	15	5	14	15	16	19	14	12	8	7
9. Erysipelas.....	151	6	1	1	5	4	1	7	8	8	2	3	1	2	7
10. Puerperal Fever.....	44	2	1	1	1	1	1	1	4	8	2	1	1	1	1
11. Carbuncle.....	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12. Influenza.....	456	8	5	2	4	8	18	13	6	9	3	15	11	19	4
13. Dysentery.....	437	6	5	2	4	8	8	18	1	3	2	6	1	4	7
14. Diarrhea.....	394	2	2	2	9	3	2	12	15	33	7	2	2	1	1
15. Cholera Infantum.....	49	5	1	1	1	1	1	1	1	2	1	2	1	1	1
16. { Cholera Morbus.....	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1
{ Cholera.....	201	6	2	5	18	12	6	7	4	1	2	3	2	4	5
17. Ague.....	311	10	2	2	7	2	1	1	1	1	8	5	4	1	7
18. Remittent Fever.....	101	2	2	4	2	1	2	5	8	1	1	2	3	1	8
19. Rheumatism.....	9	4	1	1	1	1	1	1	1	1	1	1	1	1	1
I.—Order 2. Euthetic.....	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1. Syphilis.....	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1

^a Includes 9 from "Nervous Fever."
^b Includes one "Continued Relapsing Fever."

^a Includes two from "Inflammation."
^b Includes one "Female Complaint."

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	STATE	COUNTIES.																						
		Alcona.	Allagan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Kalam.	Kemmel.	Genesee.	Gr. Traverse.	Grand.	Hillsdale.
2. { Stricture.....	2																				1			
2. { Stricture of Urethra.....																								
3. Hydrophobia.....	1																							
4. Glanders.....	2																							
I.—ORDERS 3. Dietic.....	27	1				1	2	2	2	1	2						2				1	1	1	
1. Privation.....																								
{ Rachitis.....	1																							
2. { Scurvy.....																								
2. { Purpura.....	1																							
3. Delirium Tremens (Alcoholism).....	12						2	2															1	
4. Goutre																								
5. Intemperance	12	1				1				1	2						2				1	1		
I.—ORDERS 4. Parasitic.....	23							1	1	2	1										1			2

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TABLE VI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																						
	Alcona.	Allagan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clarke.	Climon.	Delta.	Eaton.	Kemmel.	Genesee.	Gr. Traverse.	Gratiot.	Hillsdale.
2. Apoplexy.....	70	2	2	2	2	2	2	5	1	1	1	1	1	1	1	1	1	3	1	2	2	2	3
3. Paralysis	155	8	8	1	1	1	1	5	6	6	4	4	1	1	1	1	1	5	5	8	8	2	11
4. Insanity	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5. Chorea.....	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6. Epilepsy.....	28	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7. Tetanus	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8. Convulsions	318	4	4	3	29	10	7	2	1	1	1	1	1	1	1	1	1	2	2	8	8	8	7
9. { Dropsy of Brain.....	70	1	1	1	8	4	1	8	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
9. { Brain Diseases.....	214	8	8	2	4	11	6	6	1	1	1	1	1	1	1	5	5	12	12	8	8	1	6
10. Spinal Fever.....	112	7	7	1	1	24	6	4	10	1	1	1	1	1	1	1	1	2	2	2	2	2	1
11. Spotted Fever.....	100	1	1	1	1	8	2	6	1	1	1	1	1	1	1	5	5	4	4	4	4	1	1
12. Meningitis	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6
13. Meningitis, Cerebro-spinal.....	75	2	2	1	1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
14. Meningitis, Spinal.....	51	4	4	1	1	1	1	1	1	1	1	1	1	1	1	4	4	2	2	2	2	2	3

[illegible]

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							STATE.
	Alcona.	Allagan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Genesee.	Gr. Traverse.	Gratiot.	Hillsdale.		
3. Peritonitis.....	14	2							1	1			1	1										
4. Ascites.....	4										1													
5. Ulceration of Intestines.....	2			1																				
6. Hernia.....	16					1			1							1		1				1		
7. Obstruction of Bowels.....	3																							
8. Intussusception.....	1															1								
9. Stricture of Intestines.....																								
10. Fistula.....	1																							
11. Stomach Diseases.....	62	2	1	1	1	1	1	2	1	1	1					1	1	1	4				5	
12. Pancreas Diseases.....																								
13. Hepatitis.....	11				2					1								1						
14. Jaundice.....	25					2		2	1	1						1			1					
15. Liver Diseases.....	100	2			3	6		2	1	3	1							2		2		1	4	
16. Spleen Diseases.....	6				1				1															

17. Bowel Diseases, etc.....	84	.....	.....	.....	2	.....	2	1	1	.....	.....	.....	1	.....	2	.....
18. Mouth Disease.....	9	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
III.—ORDER 5. Urinary Organs.....	129	.....	8	1	3	2	1	2	3	2	4	.....	5	4	8	2	3
1. Nephritis.....	15	.....	.....	1	.....	.....	.....	.....	.....	.....	8	.....	2	1	.....	1	.....
2. Ischuria.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3. Bright's Disease of Kidneys.....	11	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
4. Diabetes.....	34	.....	.....	.....	1	.....	2	1	.....	.....	.....	.....	2	.....	.....	.....	3
5. Calculus (Gravel, etc.).....	24	1	1	1	.....	.....	1	1	1	.....	1	.....	.....	1	2	.....	.....
6. Cystitis.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7. Kidney Diseases.....	39	2	.....	1	1	2	.....	.....	.....	.....	.....	.....	1	.....	5	1	1
III.—ORDER 6. Generative Organs.....	23	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
1. { Ovarian Tumor.....	5	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2. { Ovarian Dropsy.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2. Diseases of Uterus.....	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
III.—ORDER 7. Organs of Locomotion.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
1. Arthritis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2. Joint Diseases.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
III.—ORDER 8. Integumentary System.....	49	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	1	3	1	1
1. Phlegmon.....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	1

[illegible]

TABLE XVI.—CONTINUED.—Causes of Death, Classified.

CAUSES OF DEATH.		COUNTIES.																							
		Houghton.	Huron.	Isgham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Meosita.	Memphisee.	
CLASSES.																									
I.—Zymotic Diseases.....		21	41	90	86	17	14	107	84	18	185	6	5	68	44	141	39	60	60	1	114	19	14	9	
II.—Constitutional Diseases.....		13	10	65	49	8	15	65	69	1	97	4	--	84	7	58	16	84	8	--	30	4	5	--	
III.—Local Diseases.....		82	26	89	116	4	15	121	124	8	161	10	1	75	11	89	40	57	16	--	58	17	22	8	
IV.—Developmental Diseases.....		11	14	28	27	1	2	83	26	--	52	2	1	23	2	23	10	14	3	--	17	7	6	3	
V.—Violent Deaths.....		9	5	16	5	8	1	18	9	1	21	12	1	1	9	11	11	8	7	1	23	1	4	3	
ORDERS.																									
I.—1. Miasmatic Diseases.....		21	41	89	85	17	14	106	81	12	184	6	5	68	44	187	88	60	60	1	112	19	14	9	
2. Enthetic Diseases.....									2	--	1	--	--	--	--	1						1	--	--	
3. Dietic Diseases.....				1					1	--	--	--	--	--	--	--	1						--	--	

3. Developmental Diseases of Old People.....	1	1	15	5	18	11	19	1	10	12	4	5	1	2	1	3
4. Diseases of Nutrition.....																
V.—1. Accident or Negligence.....	2	4	4	8	8	1	8	10	1	1	2	7	6	7	5	12
2. Battle.....																
3. Homicide.....														1		8
4. Suicide.....			1			2		2			2	1			1	
5. Execution.....																
6. Violent Deaths.....	7	1	11	2		8	1	9	11		2	4		2	7	
Sudden Deaths (causes unascertained).....	1															
UNCLASSIFIED.....				8		1	1	5		1				1		1
1. Throat Disease.....				1				3		1						
Causes not Specified.....	41	17	18	19	6	2	26	26	8	46	5	1	17	6	45	20
Class I.—ZYMOTIC.....	21	41	90	86	17	14	107	81	18	185	6	5	68	44	141	39
I.—ORDER 1. Miasmatic.....	21	41	89	85	17	14	106	81	12	184	6	5	68	44	187	38
1. Small-pox.....	1		5	2	5			1		10			4		8	
2. Measles.....	2	2	1	8			12	1		11			1	2		3
3. Scarletina.....	1	5	12	10	4		10	11		24			3	2	27	10
4. Diphtheria.....		3	1	10	1	4	4	4		16			8		9	

^a Includes three "Blasted in Mine."

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.															
	Houghton.	Huron.	Ingham.	Irona.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.
5. Quinney.....	1	4	1	1	1	1	6	3	1	1	1	1	1	1	1	1
6. Croup.....	2	6	3	1	1	1	1	4	1	1	1	1	1	1	1	1
7. Whooping Cough.....	1	5	16	21	1	1	18	13	1	30	1	2	5	7	21	6
8. { Typhus.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
{ Typhoid Fever.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9. Erysipelas.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10. Puerperal Fever.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11. Carbuncle.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12. Infuenza.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13. Dysentery.....	1	11	9	8	1	12	8	7	18	1	21	29	12	5	9	5
14. Diarrhea.....	8	3	10	3	2	2	3	18	1	18	1	4	4	3	5	10
15. Cholera Infantum.....	6	9	5	5	5	27	18	19	8	3	25	2	4	31	6	6
16. { Cholera Morbus.....	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1
{ Cholera.....	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1

17. Ague.....	1	4	6	4	1	13	0	5	4	2	1	1	2	1
18. Remittent Fever.....	4	1	0	4	2	8	1	6	1	1	8	14	5	2
19. Rheumatism.....			3	3	1	3	2	5	1	3	2	4		
I.—ORDER 2. Enthetic.....														
1. Syphilis.....						2	1			1		1		
2. { Stricture						1						1		
{ Stricture of Urethra														
3. Hydrophobia.....														
4. Glanders.....							1							
I.—ORDER 3. Dietic.....														
1. Privation.....		1				1				1				
{ Rachitis														
2. { Scurvy														
{ Purpura														
3. Delirium Tremens (Alcoholism).....										1				
4. Gout.....						1								
5. Intemperance.....														
I.—ORDER 4. Parasitic.....														
1. Thrush.....			1			1						1		
2. Worms.....													1	

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TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							
	Houghton.	Huron.	Ingham.	Ironla.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Meccosa.	Menominee.	
17. Spine, Inflammation of.....	.....	.....	.....	.....	.....	.....	1	.....	.....	14	.....	.....	.....	8	1	13	4	4	.....	.....	.....	.....	.....	.....
18. Frightened.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	8	.....	1	.....	2	.....	.....	.....	1	.....	.....	.....
III.—ORDER 2. Organs of Circulation.....	8	5	2	8	1	14	14	14	14	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1. Pericarditis .....	.....	.....	1	.....	.....	.....	8	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2. Aneurism.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3. Heart Diseases	3	5	1	8	1	11	14	14	12	12	.....	.....	5	1	12	4	2	.....	.....	.....	1	8	.....	.....
4. Emboli .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
III.—ORDER 3. Respiratory Organs.....	5	6	21	33	1	7	33	26	8	40	8	.....	25	2	24	10	10	5	.....	.....	10	8	8	2
1. Epistaxis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2. Laryngitis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3. Bronchitis .....	.....	1	.....	.....	1	1	.....	1	.....	1	2	.....	.....	.....	.....	3	1	.....	.....	.....	2	.....	.....	.....
4. Pleurisy .....	.....	.....	1	1	1	1	1	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
5. Pneumonia.....	6	17	26	5	17	19	9	26	2	22	2	18	4	7	4	.....	.....	.....	.....	.....	5	8	8	.....

6. Asthma	3	---	---	---	---	1	---	---	---	1	---	---	---	---	---	---	1	---
7. Lung Diseases	2	---	8	6	1	---	14	5	1	18	---	1	5	4	---	2	1	---
III.—ORDER 4.—Digestive Organs	7	9	17	15	1	1	27	11	---	29	1	15	12	7	---	7	1	0
1. Gastritis	---	---	---	1	1	2	---	---	---	---	1	2	1	---	---	---	---	5
2. Enteritis	5	8	8	6	1	---	9	5	6	---	6	6	7	8	---	1	---	1
3. Peritonitis	---	1	---	1	---	1	1	2	---	---	---	---	---	1	---	---	---	---
4. Ascites	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5. Ulceration of Intestines	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6. Hernia	---	2	---	---	---	---	---	---	1	---	1	---	---	---	---	---	---	---
7. Obstruction of Bowels	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---
8. Intussusception	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9. Stricture of Intestines	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10. Flatula	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Stomach Diseases	---	---	2	---	---	---	7	1	7	---	1	1	2	---	---	---	1	2
12. Pancreas Diseases	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13. Hepatitis	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14. Jaundice	1	---	1	1	---	---	1	1	1	---	---	---	1	---	1	---	2	---
15. Liver Diseases	1	---	4	4	---	---	8	---	7	---	2	1	1	1	8	1	---	2
16. Spleen Diseases	---	---	---	---	---	---	1	---	1	---	---	1	---	1	---	---	---	---
17. Bowel Diseases, etc.	---	---	---	---	---	---	2	2	5	---	1	---	---	---	2	---	1	---
18. Mouth Disease	---	---	---	---	---	---	1	---	---	---	1	---	---	1	---	---	---	---

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[illegible]

Includes three "Blasted in mine."

II.—1. Diathetic Diseases.....	1	..	4	6	6	8	18	6	2	..	8	..	28	8	..	7	18	10	6	15	15	102	..
2. Tubercular Diseases.....	5	1	27	20	10	9	37	19	8	34	2	55	17	1	27	49	38	15	39	59	208	..	
III.—1. Diseases of Nervous System.....	3	2	27	18	22	4	38	15	1	2	45	1	58	12	..	38	49	14	14	47	41	210	4
2. Diseases of Organs of Circulation.....	..	..	8	10	9	5	18	6	..	..	6	..	15	8	..	8	6	11	4	11	16	53	..
3. Diseases of Respiratory Organs.....	1	..	11	19	6	4	24	6	..	2	32	..	46	9	1	15	20	20	7	27	33	94	4
4. Diseases of Digestive Organs.....	4	1	5	7	3	..	15	8	3	13	..	19	8	..	11	10	7	6	16	18	56	3	
5. Diseases of Urinary Organs.....	..	..	2	2	1	..	4	..	..	..	2	..	1	..	..	5	8	2	1	5	4	7	..
6. Diseases of Generative Organs.....	..	..	..	..	..	..	8	..	..	..	1	..	..	1	..	2	..	1	1	..	1	8	..
7. Diseases of Organs of Locomotion.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Diseases of Integumentary System.....	..	..	3	..	..	..	1	..	..	..	..	..	4	1	..	1	5	1	1	3	..	8	..
IV.—1. Developmental Diseases of Children.....	..	1	4	2	9	..	6	6	..	3	21	2	18	3	1	9	15	..	8	5	6	89	..
2. Developmental Diseases of Women.....	1	..	2	6	3	2	4	1	..	12	..	8	8	..	2	14	3	4	8	10	36	..	
3. Developmental Diseases of Old People.....	1	..	6	5	1	..	21	1	..	12	..	9	4	..	5	16	6	2	9	9	64	..	
4. Diseases of Nutrition.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V.—1. Accident or Negligence.....	..	1	4	5	2	3	4	7	..	7	..	17	8	1	7	13	4	1	3	6	35	3	
2. Battle.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Homicide.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..
4. Suicide.....	..	1	..	1	..	..	2	..	..	1	..	..	..	..	..	1	8	..	2	1	6	..	..
5. Execution.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Violent Deaths.....	2	..	2	1	3	..	5	2	..	1	11	..	12	8	..	1	5	3	2	3	6	21	..

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.														
	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Ocean.	Ontonagon.	Oscoda.	Ottawa.	Presque Isle.	Baginaw.	Benillac.	Schoolcraft.
Sudden Deaths (causes unascertained).....	14	1	32	27	19	5	33	11	3	47	2	95	22	3	5
UNCLASSIFIED.....	85	1	56	59	81	23	71	44	6	10	153	4	165	45	41
1. Throat Disease.....	85	1	55	83	80	23	70	43	6	10	153	2	163	44	41
Causes not Specified.....	9	2	2	2	21	1	1	1	1	29	8	7	8	7	3
CLASS I.—ZYMOTIC.....	14	4	1	1	1	1	1	2	2	5	5	1	7	7	5
I.—ORDER 1. Miasmatic.....	1	9	1	1	4	7	11	12	1	1	1	8	2	4	8
1. Small-pox.....	1	4	3	4	3	3	5	2	2	2	2	4	4	4	2
2. Measles.....	1	4	3	4	3	3	5	2	2	2	2	4	4	4	2
3. Scarlatina.....	1	4	3	4	3	3	5	2	2	2	2	4	4	4	2
4. Diphtheria.....	1	4	3	4	3	3	5	2	2	2	2	4	4	4	2
5. Quinsy.....	1	4	3	4	3	3	5	2	2	2	2	4	4	4	2
6. Croup.....	1	4	3	4	3	3	5	2	2	2	2	4	4	4	2
7. Whooping Cough.....	1	4	3	4	3	3	5	2	2	2	2	4	4	4	2
St. Clair.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
St. Joseph.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tuscola.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Van Buren.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Washtenaw.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wayne.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wexford.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

8. { Typhus	19	1	8	88	11	5	9	2	1	2	7	1	10	8	12	15	14	21	8	1
{ Typhoid Fever	1	2	5	1	8	1	3	1	1	8	5	1	1	8	5	1	4	1	10	1
9. Erysipelas	1	2	5	1	8	1	3	1	1	8	5	1	1	8	5	1	4	1	10	1
10. Puerperal Fever	1	2	5	1	8	1	3	1	1	8	5	1	1	8	5	1	4	1	10	1
11. Carbuncle	1	2	5	1	8	1	3	1	1	8	5	1	1	8	5	1	4	1	10	1
12. Influenza	1	2	5	1	8	1	3	1	1	8	5	1	1	8	5	1	4	1	10	1
13. Dysentery	8	1	9	1	2	7	7	7	24	6	2	1	9	5	3	7	9	18	8	
14. Diarrhea	2	11	2	8	1	1	3	3	22	1	50	5	6	10	5	6	4	5	126	1
15. Cholera Infantum	2	8	5	7	6	1	2	8	2	8	1	1	5	15	8	12	10	37	8	
16. { Cholera Morbus	2	2	1	1	1	1	2	2	2	2	1	1	2	2	1	1	1	8	8	
{ Cholera	2	2	1	1	1	1	2	2	2	2	1	1	2	2	1	1	1	8	8	
17. Ague	1	6	8	4	5	5	5	7	1	8	1	1	2	8	5	2	10	2	10	
18. Remittent Fever	1	8	8	9	2	5	2	10	30	8	8	1	5	9	1	8	5	2	17	
19. Rheumatism	1	1	1	1	2	1	2	1	2	1	1	1	8	2	1	2	7	11	11	
I.—Order 2. Enthetic	1	6	8	4	5	5	5	7	1	8	1	1	2	8	5	2	10	2	10	
1. Syphilis	1	6	8	4	5	5	5	7	1	8	1	1	2	8	5	2	10	2	10	
2. { Stricture	1	6	8	4	5	5	5	7	1	8	1	1	2	8	5	2	10	2	10	
{ Stricture of Urethra	1	6	8	4	5	5	5	7	1	8	1	1	2	8	5	2	10	2	10	
3. Hydrophobia	1	6	8	4	5	5	5	7	1	8	1	1	2	8	5	2	10	2	10	
4. Glanders	1	6	8	4	5	5	5	7	1	8	1	1	2	8	5	2	10	2	10	

II.—ORDER 1. Diathetic.														1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Gout	1	1	4	6	8	18	6	2	8	28	3	7	18	10	6	15	15	109									
2. { Dropsy			1	8	2	1	6	8	1	6	8	1	4	7	8	9	6	99									
3. { Anemia			1	8	8	3	1	1	1	0		2		2		1	4	56									
4. Cancer			2	1	1	8				8	1	1	1	2	5	1	8	10									
5. Noma (Canker)	1		3	2	2		1	1	1	8	1		4		2	1	1	5									
6. Mortification						1	1											2									
II.—ORDER 2. Tubercular.																											
1. Scrofula	5	1	27	20	10	9	37	10	8	84	2	55	17	1	27	49	89	15	39	59	202						
2. Consumption of Bowels	1				1		1	1	1						2		1		4	3							
3. Pathosis (Consumption of Lungs)	4	1	27	20	10	7	37	18	8	82	2	55	17	1	25	48	34	15	38	55	191						
4. Hydrocephalus															1		1		1	7							
5. Marasmus										1										1							
CLASS III.—Local Diseases.																											
1. Cephalitis	8	8	51	56	24	18	98	80	4	7	99	1	189	84	1	60	98	84	109	118	456	10					
2. Apoplexy	3	2	27	18	22	4	88	15	1	2	45	1	52	12		23	49	14	14	47	41	240	4				
3. Paralysis	2		4	6	9	1	8	5		8	15	8	15	8		7	18	6	4	10	7	84	1				
4. Insanity							2		1				1	1			2	1			1	2	17				
5. Chorea			2	1	8		7	2		2					1	4	1			4	10	19	2				
							1																7				
							1								1												

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																						
	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Ocean.	Ontonagon.	Oscoda.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
6. Epilepsy.....	1	—	—	—	—	—	1	—	—	—	2	—	—	—	—	—	—	1	2	—	—	—	8
7. Tetanus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8. Convulsions	6	4	2	2	2	2	3	1	1	1	10	—	16	4	—	1	12	1	1	1	1	9	89
9. { Dropsy of Brain.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
{ Brain Diseases.....	3	4	5	1	6	1	6	1	—	—	6	—	9	1	5	1	5	—	2	5	9	16	—
10. Spinal Fever.....	—	2	1	—	—	—	—	1	—	—	—	5	—	—	—	2	3	2	3	11	1	8	—
11. Spotted Fever.....	7	—	—	—	—	—	2	—	—	—	4	—	5	—	—	1	—	—	—	2	—	22	—
12. Meningitis	—	—	—	—	—	—	—	—	—	—	—	—	8	—	—	—	—	—	—	—	1	—	—
13. Meningitis, Cerebro-spinal.....	1	—	8	—	—	—	1	1	1	—	5	1	2	—	—	1	1	—	—	8	—	10	—
14. Meningitis, Spinal.....	—	—	—	—	—	—	2	2	—	—	—	—	—	—	—	1	—	—	1	1	—	—	—
15. Neuralgia.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—
16. Spine Disease.....	—	—	1	2	—	—	3	—	—	—	—	—	1	—	—	2	2	1	1	8	1	15	1
17. Spine, Inflammation of.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18. Frightened	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

III.—ORDER 3. Organs of Circulation.....	3	10	2	5	13	6	1	15	3	8	6	11	4	11	16	38
1. Pericarditis	1	1	2	1	2	2	1	1	1	1	1	1	1	1	2	8
2. Aneurism.....																
3. Heart Diseases.....	2	9	2	3	12	4	4	14	3	2	6	10	3	11	14	50
4. Emboli																
III.—ORDER 4. Respiratory Organs.....	1	11	19	6	4	24	6	2	32	48	9	1	15	20	20	94
1. Epistaxis										1						
2. Laryngitis.....																
3. Bronchitis										1		1	1		8	3
4. Pleurisy.....	1				1	1				1		2	2		1	4
5. Pneumonia.....	1	7	13	6	4	15	4	2	26	40	8	1	10	14	13	56
6. Asthma	2				3								2			5
7. Lung Diseases.....	1	1			5	1		6		5	1	8	3	4	9	26
III.—ORDER 4. Digestive Organs.....	4	1	5	7	8	15	8	3	13	19	8	11	10	7	6	56
1. Gastritis.....						2	1	1	1	2					2	1
2. Enteritis.....	4	1	2	2		6	1	1	8	6	5	5	4	4	4	24
3. Peritonitis.....											2			1		
4. Ascites										2					1	
5. Ulceration of Intestines.....					1											
6. Hernia												1	1	1	1	4

IV.—ORDER 3. Developmental Diseases of Old People	1	1	6	5	1	21	1	13	9	4	5	10	8	2	9	9	64			
1. Old Age	1	1	6	5	1	21	1	13	9	4	5	10	8	2	9	9	64			
IV.—ORDER 4. Diseases of Nutrition.																				
1. Atrophy and Debility																				
CLASS V.—Violent Deaths.	2	1	7	6	6	8	11	9	1	19	29	11	1	9	24	10	5	18	63	2
V.—ORDER 1. Accident or Negligence.	1	1	4	5	2	8	4	7	7	17	8	1	7	18	4	1	3	6	85	2
1. Fractures and Contusions			1	1			1	2	2	1			1	2				2	12	
2. Wounds								1		8						1			8	
3. Burns and Scalds	1	2	1						4			1	2	1			2	7		
4. Poison			1	2	1		1	1	1	1	2		1							
5. Drowning			2			6	3	3	6	1	1	12					2	9	1	
6. Suffocation						1			2							1		2		
7. Otherwise		1	1		3	2			2	2	1	3	1		1		2	1		
V.—ORDER 2. In Battle																				
V.—ORDER 3. Homicide												1						1		
V.—ORDER 4. Suicide		1		1		2		1					1	8		2	1	6		
1. Wounds																				
2. Poison																				
3. Drowning																				

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.														
	Midland.	Misaukec.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Oscoda.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.
4. Hanging	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. Otherwise and not specified.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
V.—ORDER 5. Execution	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. Hanging	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
V.—ORDER 6. Violent Deaths, not included above	2	2	1	8	5	2	1	11	12	3	1	5	3	2	6
Sudden, cause unknown.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
UNCLASSIFIED	—	—	2	—	—	1	1	—	—	—	—	—	—	—	—
1. Throat Disease	—	—	—	—	—	1	1	—	—	1	1	—	7	2	—
Cause not specified.....	14	1	32	27	19	5	33	11	—	3	47	2	95	22	8
	180	8	180	8	180	8	180	8	180	8	180	8	180	8	180
Wayne.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Washington.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Van Buren.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tuscola.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
St. Joseph.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
St. Clair.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Shiawassee.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Schoolcraft.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sanilac.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Saginaw.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Presque Isle.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ottawa.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Oscoda.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ontonagon.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Oceana.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Oakland.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Newaygo.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Muskegon.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Montcalm.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monroe.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Misaukec.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Midland.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE XVII.—*Exhibiting, by Sex, by Months, by Specified Causes, and by Ages in Periods of Years, the Number of Persons Returned as having Died during the Year ending December 31, 1872; and also, by Sex, and by Specified Causes, the Number of Persons Returned as having Died during the Years 1869, 1870, and 1871 (Stillbirths included).*

ALL CAUSES.																																			
SEX.	MONTHS, 1872.												YEARS.		AGES.																				
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1872.	1871.	1870.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
Total.	602	756	941	1140	979	815	1050	1798	1638	1321	1688	1288	80	13871	9728	10766	5552	754	447	538	688	548	453	465	410	430	446	874	484	488	441	281	873	815	
Males.	316	398	510	635	505	488	538	948	898	724	567	701	9	7152	5190	5589	3045	876	212	289	809	250	204	220	211	266	274	288	272	258	256	159	214	176	
Females.	284	358	429	504	472	326	509	757	758	595	487	584	19	6102	4508	5140	2488	877	235	249	874	298	248	245	199	164	172	186	169	175	185	122	158	135	
Unk...	2	...	2	1	2	1	3	8	2	2	4	8	2	27	85	87	21	1	4

TABLE XVII.—CONTINUED.—Specified Causes of Death.

MONTHS, 1872.													YEARS.				CAUSES OF DEATH.	AGES.												
SEX.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1872.	1871.	1870.		1869.												
	..	1	1	1	2	..	..	..	8	8	..	..	..	10	14	6		7										
Fe's.	7	Abortion.....	..	..	..	..	..	..	..	..	5		
Males	1	2	..	..	Abscess of Abdomen.....	..	..	..	..	..	..	..	..	..
Fe's.	2	1	..	..	" .....	..	..	..	..	..	..	..	..	..
Males	Abscess of Arm pit and Thigh.....	1	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	..	1	..	1	..	..	Abscess of Back.....	..	..	..	..	..	..	..	..	..
Fe's.	1	..	..	..	" .....	..	..	..	..	..	..	..	..	..
Males	1	1	..	..	1	1	..	..	..	8	..	..	..	..	Abscess of Bowels.....	..	..	..	..	..	..	..	..	..
Males	1	1	..	1	..	2	..	3	..	..	Abscess of Brain.....	1	..	..	..	..	..	..	..	..
Fe's.	1	..	..	" .....	..	..	..	..	..	..	..	..	..
Males	1	1	..	..	..	..	1	..	..	..	..	Abscess in Chest and Limbs.....	..	..	..	..	..	..	..	..	..
Males	1	..	1	..	..	..	..	Abscess in Face or Cheek.....	..	..	..	..	..	..	1	..	..
Fe's.	1	..	..	..	..	..	..	..	..	..	..	..	..	Abscess, Femoral.....	..	..	..	..	..	..	1	..	..
Males	2	3	..	..	Abscess of Head.....	..	..	..	..	..	..	..	..	..
Fe's.	1	..	..	..	..	..	..	..	..	1	..	1	..	..	" .....	..	..	..	..	..	..	..	..	1		

[illegible]

[illegible]

[illegible]

• Includes 8 "From a Stove"; 1 each, from "Melting pitch pine", "In barn", "In dwelling", "Fell in fire while in it", "By kerosenc," for 1872.

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.		CAUSES OF DEATH.	Under 5.	AGES.														Unknown.			
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.																					
Fe'a..	2	8	4	2	9	8	8	8	8	9	5	8	74	57	73	66	4	2	1	1	2	2	2	2	2	9	8	12	13	4	2	6	5	1
Total	1	4	1	8	2	8	10	9	7	10	4	59	85	87	47	53	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	..	8	1	2	8	8	5	4	2	2	..	81	14	17	24	29	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe'a..	1	1	1	2	5	2	4	8	2	..	..	28	21	20	23	24	..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	4	9	11	23	18	6	15	21	20	12	22	19	175	246	177	176	18	11	8	9	18	11	12	16	17	13	17	7	8	7	7	1	1	4
Males	8	9	10	22	10	4	18	19	17	10	20	17	153	216	192	149	7	9	6	9	18	11	11	14	17	12	15	7	2	6	4	..	1	4
Fe'a..	1	1	1	1	3	2	8	8	2	2	2	..	22	80	25	27	6	2	2	..	1	2	1	2	1	2	1	1	1	8	1	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe'a..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	1	1	1	1	1	1	1	1	1	1	1	6	2	1	6	..	..	9	..	..	..	..	..	1	1	1	1	1	1	1	1	1	..
Males	1	1	1	1	1	1	1	1	1	1	1	1	5	2	1	4	..	..	1	..	..	..	..	1	1	1	1	1	1	1	1	1	1	..
Fe'a..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1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Includes 8 "Blasted in mine," for 1872.

CAUSES OF DEATH SPECIFIED.

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[illegible]

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.		CAUSES OF DEATH.	AGES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1872.		1871.	1870.	1869.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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CAUSES OF DEATH SPECIFIED.

315

[illegible]

Includes 1 "From Exposure," for 1872.

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.		CAUSES OF DEATH.	AGES.																				
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.			Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.			
														1872.																				1871.	1870.	1869.
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total	6	8	4	4	8	4	5	2	10	6	8	5	55	49	43	22	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Males	3	2	2	2	1	1	1	1	3	4	1	3	25	25	17	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Fe's.	3	1	2	2	1	3	4	1	7	2	2	2	30	24	26	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total	9	16	18	15	15	17	23	17	24	18	26	21	217	210	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246
Males	3	6	10	9	10	4	9	7	9	8	14	9	98	86	103	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Fe's.	6	10	8	6	10	5	13	14	10	15	10	12	119	124	143	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136
Total	1	1	1	1	1	1	1	1	1	1	1	1	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23

[illegible]

Includes 1 "While Bathing," and 1 "In a Well," for 1872.

[illegible]

Includes 1 "In Foot and Limb," for 1872.

[illegible]

* Includes 1 "Caused by a Fall," for 1872.

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.		CAUSES OF DEATH.	AGES.																	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
	1872.	1871.	1870.	1869.																													
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Females	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Females	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Females	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Females	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Females	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Females	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Females	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Females	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Fe's.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																				

* Includes 8 "Accidentals," 1 "Accident,—In H/p," and 1 "In Army," for 1872.

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.				CAUSES OF DEATH.	Under 5.	AGES.														
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1872.	1871.	1870.			1869.														
Males	Hemorrhage from Bladder.....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	..	..	..	..	1	..	1	1	..	8	8	8	1	Hemorrhage of Bowels.....	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Males	1	..	..	..	..	..	..	..	1	..	2	2	2	2	"	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Fe'a.	1	..	..	..	1	1	1	1	1	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe'a.	1	..	..	..	..	..	1	..	..	..	..	Hemorrhage, Internal.....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	Hemorrhage from Leg.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe'a.	1	..	..	..	..	..	..	..	1	..	..	..	..	Hemorrhage of Liver.....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	..	1	1	1	..	2	2	1	1	1	Hemorrhage from Nose.....	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	1	1	..	..	..	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe'a.	1	1	..	..	..	..	1	1	1	1	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe'a.	1	..	..	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	1	..	..	1	1	1	Hemorrhage, Puerperal.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	2	2	..	..	..	Hemorrhage of Stomach.....	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Fe'a.	"
Total	1	1	1	1	"	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	1	1	1	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe'a.	"

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.		CAUSES OF DEATH.	AGES.																				
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.																								
	2	1	1	1	1	1	1	1	1	1	1	1	1872.	1871.	1870.	1869.																				
Total	4	7	8	2	9	5	12	15	12	2	1	7	79	98	87	49	Inanition	5	Under 5.	5	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2	"	2	5	2	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
W's.	2	1	1	1	1	1	1	1	1	1	1	1	3	3	2	2	"	3	8	3	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
F's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Indigestion	1	1	1	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Intoxication	1	1	1	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Infanticide	1	1	1	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	4	7	8	2	9	5	12	15	12	2	1	7	79	98	87	49	Infantile	79	79	79	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2	"	89	89	89	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
F's.	3	1	2	2	6	2	6	4	8	1	5	5	40	40	37	14	"	40	40	40	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Unk.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	"	1	1	1	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Total	4	8	4	5	2	8	2	1	4	4	4	4	86	16	16	8	Inflammation	12	12	12	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Males	2	1	2	4	1	1	1	1	1	1	1	1	20	9	9	7	"	7	7	7	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
F's.	2	2	2	1	1	8	1	8	1	8	1	8	16	7	7	1	"	5	5	5	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
W's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Indisposition	1	1	1	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
W's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Indisposition	1	1	1	10 to 15.	10 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.			CAUSES OF DEATH.	AGES.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1872.			1871.			1870.			1869.												
Total	1	1	1	4	3	2	1	3	8	5	3	2	..	29	34	33	29	Kidney Disease.....	2	1	..	4	1	2	..	2	..	2	3	1	2	4	3	2	..
Males	1	1	1	2	3	2	1	2	1	5	2	2	..	22	30	25	22	"	1	..	2	1	1	..	1	..	2	3	1	2	3	3	2	..	
Females	..	..	1	2	..	..	1	2	..	1	..	..	..	7	4	8	7	"	1	1	2	..	1	..	1	..	..	..	..	1	..	..	..	..
Total	1	..	1	1	1	2	1	5	2	1	1	1	..	15	13	10	8	Kidneys, Inflammation of.....	3	1	..	2	1	1	..	1	..	1	1	..	1	..	2	3	..
Males	..	..	..	..	2	..	4	1	1	1	1	1	..	9	9	9	1	"	2	1	..	..	..	..	..	..	..	1	..	1	..	2	3	..	
Females	1	..	1	1	1	1	1	..	..	..	..	..	..	6	4	1	2	"	1	..	2	1	1	..	1	..	1	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	Killed by Violence.....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	Laryngismus Stridulus.....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	1	..	..	1	..	..	..	..	..	1	..	..	..	Leg, Inflammation of.....	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	Limbs, Inflammation of.....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
Total	..	..	..	1	1	4	..	..	..	..	..	..	..	6	4	7	4	Lightning.....	..	..	2	1	1	..	1	..	1	1	..	..	..	..	..	..	..
Males	..	..	..	1	1	4	..	..	..	..	..	..	..	5	3	6	3	"	..	..	1	1	1	..	1	..	1	1	..	..	..	..	..	..	..
Females	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	1	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	5	7	5	6	8	6	12	11	7	6	7	9	2	33	37	73	47	Liver Disease.....	8	9	9	8	9	1	4	6	8	7	14	6	3	10	9	1	9

Males	4	3	2	6	3	3	4	5	4	8	6	45	42	40	30	"	"	5	2	2	1	1	2	4	4	7	5	8	5	2	1	1		
Fe's.	1	5	3	4	3	6	3	8	1	2	38	35	32	17	"	"	3	2	2	1	2	2	1	3	4	4	8	7	1	5	2	1	2	
Total	1	1	1	1	1	1	1	1	1	1	6	1	5	1	Liver, Enlargement of		2	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	
Males	1	1	1	1	1	1	1	1	1	1	3	1	1	1	"	"	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fe's.	1	1	1	1	1	1	1	1	1	1	3	1	1	1	"	"	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total	1	1	1	1	1	1	1	1	1	1	11	10	6	5	Liver, Inflammation of		2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Males	1	1	1	1	1	1	1	1	1	1	7	7	1	2	"	"	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fe's.	1	1	1	1	1	1	1	1	1	1	4	3	5	3	"	"	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Liver, Chronic Inflammation of		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Liver, Ulceration of		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total	1	1	1	1	1	1	1	1	1	1	2	1	1	1	Lock-jaw		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	"	"	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	"	"	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total	15	15	23	20	18	9	8	11	8	7	20	23	172	152	154	112	Lung Disease	48	6	5	6	5	9	6	10	7	9	8	10	13	15	2	3	1
Males	11	13	12	12	8	4	6	10	4	4	17	11	112	88	80	67	"	83	4	4	2	3	7	8	4	7	6	9	4	8	8	1	1	
Fe's.	4	2	11	8	5	5	2	1	4	3	12	60	69	74	45	"	"	15	2	1	4	2	2	6	2	3	1	4	2	5	7	1	2	1
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Lungs, Ulceration of		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total	1	1	1	1	1	1	1	1	1	1	12	1	6	4	Malformation		12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	4	1	3	1	"	"	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fe's.	1	1	1	1	1	1	1	1	1	1	7	1	3	3	"	"	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Unk.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	"	"	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

[illegible]

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.												AGES.																			
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	CAUSES OF DEATH.												Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
Males	2	1	1	4	4	1	5	Murder ^a	1	1
Fe'm.	8	1	"
Males	1	..	Nervous Affection.....
Fe'm.	1	..	"
Total	1	..	1	1	1	1	2	1	1	1	1	1	8	7	7	7	Neuralgia.....	8	1	1
Males	1	1	1	1	1	1	1	4	8	1	4	"	2
Fe'm.	1	1	..	1	1	1	1	1	1	1	4	4	6	3	"	1
Males	1	..	Nursing Sore Mouth.....
Fe'm.	8	..	"
Total	19	31	26	37	30	21	33	41	34	41	36	50	1	400	872	813	810	Old Age.....
Males	9	16	13	17	8	13	15	17	16	23	12	28	..	187	179	147	153	"
Fe'm.	10	15	13	20	22	8	18	24	18	18	24	22	1	213	193	166	157	"
Fe'm.	1	..	Operation for Tumor.....
Males	1	Ossification of Blood Vessels.....

[illegible]

Includes 1 "Murdered by Insane Mother," for 1872.

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.			CAUSES OF DEATH.	AGES.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1872.	1871.		1870.	1869.										
Fe's..	2	..	Paraplegia.....	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	..	..	1	..	..	..	Pericarditis.....	..	..	..	..	..	..	..	..	..
Fe'a..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	Peritonitis, Chronic.....	..	..	..	..	..	..	..	..	..
Fe'a..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	Peritonitis, Pelvic.....	..	..	..	..	..	..	..	..	..
Fe'a..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	Peritonitis, Puerperal.....	1	..	..	..	..	..	..	..	..
Total	..	2	..	8	1	8	1	..	..	..	..	..	..	11	6	5	5	Peritonitis.....	1	1	2	1	1	1	1	1	1
Males	1	1	1	..	..	..	..	..	..	..	8	4	3	2	"	1	1	..	..	..	..	..	..	..
Fe's..	..	2	2	2	1	2	1	..	..	..	..	..	..	8	2	2	3	" .....	..	2	1	1	1	1	1	1	1
Males	1	..	Phrenitis.....	..	..	..	..	..	..	..	..	..
Males	..	1	..	1	..	..	..	..	..	..	..	..	..	2	2	..	..	Piles.....	..	..	..	..	..	..	..	..	1
Males	1	..	Pistol-shot.....	..	..	..	..	..	..	..	..	..
Total	2	2	2	1	1	1	1	1	2	1	7	..	..	20	12	11	9	Pleurisy	2	1	1	1	2	2	2	1	1
Males	2	2	2	1	1	..	1	1	7	14	7	7	6	"	2	..	1	..	2	2	2	1	..	
Fe'a..	..	2	1	1	1	1	1	..	1	1	1	6	5	4	3	"	1	1	..	1	1	1	1	1	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
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Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"	
Fe'a..	"					

[illegible]

a Includes 1 from "Eating Matches," 1 "Mistake in Medicine," 1 "Poison Drugs by mistake," 6 "Accidental," 1 "With Opium," 1 "Accidentally Eating Clusia," 1 "Swallowing a Pin," and 1 "Morphine Accidentally," for 1872.

TABLE XVII.—CONTINUED.—Specified Causes of Death.

Sex.	Months, 1872.												Years.		Causes of Death.	Ages.																				
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.				
	Unknown.	Unknown.	Unknown.	Unknown.	Unknown.	Unknown.	Unknown.	Unknown.	Unknown.	Unknown.	Unknown.	Unknown.																								
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fe's.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

TABLE XVII.—CONTINUED.—Specified Causes of Death.

[illegible]

Males	10	9	13	17	16	18	9	12	10	15	15	23	173	48	6	21	"	45	14	8	23	18	14	5	5	6	5	4	2	1	1	2	19	
Fe's.	13	7	5	15	16	10	9	8	10	5	10	31	180	25	3	21	"	34	20	14	15	11	6	3	4	6	1	1	1	1	1	15		
Fe's.										1			1				Smothered	1																
Total							1	1	1				3				Snake Bite	1	2															
Males							1						2				"		2															
Fe's.							1						1				"	1																
Males							1						1				Softening of Stomach	1																
Fe's.														1			Sore Neck																	
Males																	Spasm of Glottis	1																
Males																	Spermatorrhea																	
Males																	Spina Bifida																	
Fe's.							1						1			2	"	1																
Total	6	9	12	9	10	8	5	7	10	4	6	10	99	81	83	39	Spine Disease	88	6	10	4	7	2	4	6	5	1	3	2	6	4	1	1	
Males	4	4	8	5	2	7	4	5	7	4	3	5	55	16	13	22	"	27	2	8	1	3	1	3	4	4	1	2	1	4	2			
Fe's.	2	5	4	4	8	1	4	2	8		3	5	41	15	21	17	"	11	4	7	3	4	1	1	2	1	1	1	2	2			1	
Males						1	1						2	1	3		Spine, Inflammation of								1									
Fe's.																	"																	
Fe's.																	Spinal Cord, Inflammation of																	
Males													1				Spiritualism																1	
Total													3				Spleen, Disease of																	
Males													1				"																	

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.		CAUSES OF DEATH.	AGES.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.			Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
Fe's..	..	..	..	..	..	..	..	..	..	1	1	..	..	2	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	2	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe's..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe's..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	18	8	22	12	11	11	23	34	20	15	20	25	..	304	268	129	204	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	5	1	18	7	5	5	14	12	13	11	8	15	..	109	161	64	109	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe's..	6	7	7	5	5	5	8	11	5	4	10	8	..	81	96	50	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unk..	2	..	2	..	1	1	1	2	..	2	2	..	..	14	11	19	14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	2	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	1	..	..	1	..	..	..	..	..	1	1	..	..	4	1	..	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	..	1	1	..	..	8	..	..	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..
Fe's..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

[illegible]

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1872.												YEARS.		CAUSES OF DEATH.	AGES.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.			Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
														1872.																				1871.	1870.	1869.
Fe's..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fe's..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fe's..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fe's..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fe's..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Males	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fe's..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Males	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

[illegible]

a Includes 1 "Cause Insanity;" 8 "By Drowning;" 7 "By Hanging;" 1 "By Cutting Throat;" 3 "By Shooting;" 1 "Deranged, cut his own Throat;" 2 "By Poison;" 1 "By Pistol Shot—Suicidal;" and 1 "By Strychnine," for 1872.

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

Sex.	MONTHS, 1872.												YEARS.		CAUSES OF DEATH.	AGES.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.			Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
													1872.	1871.	1870.	1869.																		
Fe's.	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe's.	1	..	1	2	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe's.	1	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe's.	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe's.	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe's.	1	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fe's.	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males
Fe's.	1	..	..	..	1	1	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1873.												YEARS.			CAUSES OF DEATH.	AGES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	1873.	1871.	1870.		1869.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

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EXHIBIT 9.—*The Deaths in Michigan in 1872 Compiled in Table XVII. as "Casualty."*

CAUSES AS RETURNED.	No. of Deaths.	CAUSES AS RETURNED.	No. of Deaths.
Total number tabulated as Casualty in Table XVII.....	175	Hurt in back.....	1
Killed on timber rollway—accidental	2	Killed by machinery.....	1
Kicked by a horse.....	10	Killed by engine.....	1
Killed in saw-mill.....	9	Killed by wagon.....	1
Accident.....	49	Internal injury.....	2
Casualty.....	4	Accidentally run over by a wagon..	1
Load of lumber fell on him.....	1	Killed by an ox.....	1
Injured in lumber woods.....	1	Supposed to be killed by kick of a cow.....	1
Killed by stick of timber falling....	2	Injuries received in saw-mill.....	1
Hurt in mill.....	1	Hurt by a bull.....	1
Accidental—broken limb.....	1	Hooked by a steer.....	1
Accident in mill.....	2	Explosion of steam engine.....	1
Killed in shingle mill.....	1	Killed by a tree.....	1
Sawed in two in mill.....	2	Killed in mine.....	12
Caused by a log.....	1	Hooked by a cow.....	1
Effects of log rolling over and crushing his leg.....	1	Killed in the woods.....	1
Killed by a log rolling on him.....	1	Accident in mine—powder.....	1
Team running away.....	5	Explosion of nitro-glycerine.....	1
Accidental fall.....	21	Killed.....	11
Broke neck by a fall.....	8	Hung—accidentally.....	1
Killed by a horse.....	1	Hurt inwardly by lifting.....	2
Accidental blow from an ax.....	1	Smothered by caving of well.....	1
Accidentally fell into a well.....	1	Hurt by jumping off cars.....	1
Killed in well by tub falling on him	1	Broken neck.....	1
Thrown from a wagon.....	1	Run over by team.....	1
Thrown from a horse.....	1	Accidentally shot by cannon.....	1
Killed by team.....	1	Killed by sawing machine.....	1
		Accident—neck broken by falling plank.....	1

* Includes "Fall from chair," "Down cellar," "On the ice," "In barn," "Off wagon," etc.

In Table XVII., six more columns have been added, specifying the age by periods of five years, instead of ten years as heretofore done, between the ages of twenty and eighty years. The table is also increased in length, because of more specific statements of the causes of death. In order not to make the table unnecessarily long, certain specified causes have been grouped together and so tabulated. Thus 175 deaths in 1872 have been grouped and appear in the table opposite "Casualty." Inasmuch as the publication of the specific causes of these deaths may tend to reduce their frequency, by causing a proper sense of the danger under certain circumstances, they are published in the new Exhibit 9, in a way to take up less room than in Table XVII., and at the same time state prominently each cause as returned.

EXHIBIT 10.—Deaths from Cancer, in Michigan, during the Year 1872.

AS RETURNED.	Males.	Females.	AS RETURNED.	Males.	Females.
Cancer in Stomach.....	19	5	Cancer on Hip.....	1	---
Cancer of Mouth.....	2	8	Cancer of Chest.....	1	---
Cancer on Side.....	---	1	Cancer of Throat.....	1	9
Cancer of Breast.....	---	19	Cancer in Ribs.....	---	1
Cancer of Womb.....	---	8			
Cancer on Leg.....	1	---	Total Specified.....	32	43
Cancer on Liver.....	3	---	"Corrhosis, or Head Cancer," (Schlirrhus, or Hard Cancer ?).....	---	1
Cancer of the Rectum.....	---	1	Cancer (unspecified).....	95	18
Cancer of Bowels.....	2	---			
Cancer of Face.....	2	2	Aggregate.....	130	56

Exhibit 10 gives some details which would take up too much room to specify in Table XVII. In females, the breast seems to be the part most frequently affected in deaths returned from cancer; and so far as indicated by the returns, the stomach is the part most frequently so affected in males, although the evidence is not as good as it would be if the part affected was stated in every case.

TABLE XVIII.—*Order of Succession of Fifteen Principal Causes of Death, exhibiting for each Specified Cause, by Sex, the Number of Deaths, and Per Cent. of Deaths from each Cause to Deaths from all Causes, for the year ending December 31, 1872.*

ORDER.	SPECIFIED CAUSES.	NUMBER OF DEATHS.			PR. CT. FROM EACH CAUSE TO DEATHS FROM ALL CAUSES, BY SEX.		
		Total.	Males.	Females.	Total.	Males.	Females.
1	Consumption.....	1,467	720	747	10.97	10.03	12.12
2	Pneumonia.....	641	392	249	4.79	5.46	4.04
3	Fever, Typhoid.....	620	340	280	4.64	4.73	4.54
4	Scarlet Fever.....	561	289	272	4.20	4.02	4.41
5	Dysentery..... ^a	456	246	210	3.41	3.43	3.41
6	Diarrhea..... ^b	• 487	250	177	3.27	3.61	2.71
7	Old Age.....	400	187	213	2.99	2.60	3.46
8	Cholera Infantum.....	• 394	221	172	2.95	3.06	2.79
9	Brain, Inflammation of.....	380	192	146	2.47	2.53	2.40
10	Small-pox.....	302	172	130	2.26	2.39	2.11
11	Heart Disease.....	301	155	146	2.25	2.16	2.37
12	Bowels, Inflammation of.....	284	105	129	1.75	1.46	2.09
13	Childbirth.....	218	.....	218	1.63	.....	3.54
14	Dropsy.....	217	98	119	1.62	1.36	1.93
15	Diphtheria.....	192	85	107	1.44	1.18	1.74
Total.....		4 6,770	3,451	3,317	50.68	48.05	53.33
All Causes.....		• 13,371	7,182	6,182	100.00	100.00	100.00

^a No deaths from chronic dysentery.

^b Includes acute and chronic.

• Includes one of unknown sex.

• Includes two of unknown sex.

• Includes 27 of unknown sex.

By Table XVIII. it will be seen that a little more than one-half of the deaths in Michigan in 1872 resulted from fifteen causes named in this table. As usual, Consumption shows the greatest percentage of deaths, but its proportion has been constantly decreasing since 1869, and there is a very marked decrease in the proportion, though not in the number of

deaths in 1872. This is probably accounted for by the fact that in 1872 Small-pox caused the death of 302 persons—2.26 per cent. of the total deaths; and Cholera Infantum, 394 deaths—2.96 per cent. of the total mortality; thus reducing the share in the proportion which usually appears against Consumption.

In 1872 the order of succession is different from any other year, and there are four diseases named in this table among the fifteen principal causes of death which are not found in the similar table for 1871, viz.: Cholera Infantum, Small-pox, Childbirth, and Diphtheria. Of these four, only Cholera Infantum is found in the similar tables for any previous year.

In order to facilitate comparisons of the several years, Exhibit 11 has been prepared. Table XVIII. enables us to see just how much of danger attached to each of the principal causes of death in 1872. Exhibit 11 enables us to obtain a more general view of the relative danger from each prominent cause of death, according to the returns for the six years ending with 1872.

EXHIBIT 11.—Order of Succession of Fifteen Principal Causes of Death for the several Years from 1868 to 1872 inclusive.

Order	Year ending April 5, 1868.	From April 5 to December 31, 1868.	1869.	1870.	1871. ^a	1872.
1	Consumption.....	Consumption.....	Consumption.....	Consumption.....	Consumption.....	Consumption.....
2	Typhoid Fever.....	Infantile.....	Typhoid Fever.....	Scarlet Fever.....	Scarlet Fever.....	Pneumonia.....
3	Pneumonia.....	Typhoid Fever.....	Pneumonia.....	Typhoid Fever.....	Pneumonia.....	Typhoid Fever.....
4	Dysentery.....	Dysentery.....	Old Age.....	Diarrhea.....	Old Age.....	Scarlet Fever.....
5	Old Age.....	Pneumonia.....	Diarrhea.....	Pneumonia.....	Typhoid Fever.....	Dysentery.....
6	Dropsy.....	Diarrhea.....	Scarlet Fever.....	Dysentery.....	Casualty.....	Diarrhea.....
7	Heart Disease.....	Heart Disease.....	Heart Disease.....	Old Age.....	Convulsions & Fits	Old Age.....
8	Casualty.....	Remittent Fever.....	Fever.....	Convulsions & Fits	Heart Disease.....	Cholera Infantum.....
9	Intermittent Fever.....	Brain, Inflamm. of ^b	Dropsy.....	Heart Disease.....	Diarrhea.....	Brain, Inflamm. of.....
10	Brain Disease.....	Convulsions & Fits	Dysentery.....	Dropsy.....	Brain, Inflamm. of.....	Convulsions & Fits
11	Diarrhea.....	Casualty.....	Brain, Inflamm. of ^b	Brain, Inflamm. of ^b	Apoplexy & Paral's	Small-pox.....
12	Convulsions & Fits	Heart Disease.....	Convulsions & Fits	Brain Disease.....	Dropsy.....	Heart Disease.....
13	Inflammation.....	Dropsy.....	Brain Disease.....	Bowels, Inflamm. of ^c	Bowels, Inflamm. of.....	Bowels, Inflamm. of.....
14	Apoplexy & Paral's	Whooping Cough.....	Apoplexy & Paral's	Cholera Infantum.....	Brain Disease.....	Apoplexy & Paral's
15	Croup.....	Apoplexy & Paral's	Casualty.....	Casualty.....	Dysentery.....	Childbirth.....
	Total.....	.....	4,949	6,121	5,267	6,901
	Per Cent. of above to all Causes.....	.....	51.12	56.85	54.14	51.61
	All Causes.....	.....	9,145	10,766	9,728	18,871

^a This is somewhat different from Table XVIII. In Report for 1871, because Convulsions and Fits are here combined, as are also Apoplexy and Paralysis, thus changing the order of succession.

^b "Cephalitis" in previous Report.

^c "Enteritis" in previous report.

Consumption, pneumonia, and some other diseases are studied more in detail further on in this Report.

Tables XIX. and XX. are the same in principle as heretofore. The ten diseases specified therein are still further studied here and in the pages following the tables.

Cancer.—The number of deaths returned as having been caused by Cancer in 1872 is 130, the excess being of females, as is the case in each of the years 1869, 1870, and 1871. The high death-rate from Cancer begins with May and continues throughout the year, with the exception of November, and a large proportion were of persons between the ages of 40 and 65 years.

Of the 130 deaths from Cancer in 1872, the location of the disease was stated in 74 cases—32 males and 42 females. In 1871 and in 1870 there were, for each year, 52 cases in which the location of the Cancer was stated. Of the 32 males, in 1872, 19 had cancer of the stomach, 3 of liver, 2 of mouth, 2 of bowels, 2 of face, 1 of leg, 1 of hip, 1 of chest, and 1 of throat. Of the 42 females, 19 had cancer of breast, 8 of womb, 5 of stomach, 3 of mouth, 2 of face, 2 of throat, 1 of side, 1 of rectum, and 1 of ribs.

Cephalitis.—The proportion of deaths from Cephalitis in 1872 is larger than in 1870 or 1871. The proportion of males in 1872 is a little larger than in 1871, while in 1870 the excess was of females. The least number occurred in January, the greatest in August. 62.12 per cent. of all the deaths from this disease were of those under 5 years of age.

TABLE XIX.—Deaths from Ten Specified Causes during the Year 1872, Exhibiting the Number of each Sex, Total Number in each Month, and at Different Periods of Age.

SEX, MONTHS, AND AGES.		CAUSES OF DEATH.									
		Cancer.	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlet Fever.	Typhoid fever.	Whooping Cough.
SEX.	Totals	180	380	162	408	192	456	179	561	620	192
	Males	56	192	92	240	85	246	75	289	340	102
	Females	74	148	70	167	107	210	104	272	280	89
	Unknown	—	—	—	1	—	—	—	—	—	1
MONTHS.	January	7	9	18	8	15	2	12	58	15	6
	February	8	12	15	8	11	4	11	84	25	5
	March	8	20	18	4	9	8	38	72	26	11
	April	4	31	13	10	6	6	33	64	40	12
	May	16	34	7	9	7	4	26	54	25	16
	June	18	23	4	15	9	10	18	29	24	11
	July	14	26	6	76	9	45	17	80	14	16
	August	12	60	8	185	19	163	10	83	39	31
	September	14	48	11	85	27	153	5	83	106	45
	October	14	24	19	82	24	48	6	36	129	17
	November	9	15	26	16	80	10	8	81	97	12
	December	11	28	27	15	26	7	10	42	78	8
	Unknown	—	—	—	—	—	1	—	—	2	2
Av. Month		10.38	27.50	13.58	34.00	16.00	38.00	14.92	55.08	51.67	16.00
AGES.	Under 5	12	205	140	376	94	341	137	336	62	185
	5 to 10	—	31	17	5	60	27	17	151	58	8
	10 to 15	8	19	8	1	28	9	7	40	57	1
	15 to 20	1	11	—	—	6	8	8	15	76	—
	20 to 25	2	9	—	8	1	4	5	6	74	—
	25 to 30	5	10	—	1	1	6	1	1	60	—
	30 to 35	2	8	—	1	1	3	1	3	20	—
	35 to 40	2	6	—	—	—	1	—	1	26	—
	40 to 45	18	7	—	—	1	4	2	—	30	—
	45 to 50	10	7	—	2	1	5	—	—	23	—
	50 to 55	15	7	—	2	1	8	—	—	28	—
	55 to 60	18	1	—	3	1	3	1	1	28	—
	60 to 65	16	4	—	1	—	8	—	—	25	—
	65 to 70	8	1	—	3	—	7	—	—	24	—
	70 to 75	9	—	—	1	—	6	—	—	17	—
	75 to 80	7	1	—	5	1	7	—	—	7	—
	80 and over	3	—	—	1	—	6	—	—	7	—
	Unknown	4	3	2	3	1	3	—	7	3	3

TABLE XX.—Percentage of Deaths during the Year ending December 31, 1872, from each of Ten Specified Causes to Deaths from all Causes; and Percentage of Each Sex, of Deaths in Each Month, and at Different Periods of Life, to Total Deaths from Each Specified Cause.

SEX, MONTHS, AND AGES.		CAUSES OF DEATH.									
		Cancer.	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlet Fe- ver.	Typhoid Fever.	Whooping Cough.
Per ct. of all causes.....		.97	2.47	1.21	3.05	1.44	3.41	1.34	4.20	4.64	1.44
SEX.	Males.....	43.03	55.15	56.79	53.82	44.27	53.95	41.90	51.52	54.84	53.13
	Females.....	56.92	44.85	43.21	40.93	55.73	46.05	58.10	48.48	45.16	46.85
	Unknown.....	.....	.....	.....	.25	.....	.....	.....	.....	.....	.53
MONTHS.	January.....	5.83	2.73	8.02	19.61	7.31	.44	6.70	9.45	2.42	3.13
	February.....	6.15	3.64	9.26	.74	5.73	.88	6.14	14.97	4.03	2.60
	March.....	6.15	6.06	8.02	.98	4.69	.66	13.44	12.83	4.19	5.73
	April.....	3.08	9.39	8.02	2.45	3.12	1.32	13.44	11.41	6.45	6.35
	May.....	12.31	10.80	4.32	2.21	3.65	.88	14.52	9.63	4.03	8.33
	June.....	10.00	6.97	2.47	3.63	4.69	2.19	7.26	5.17	3.37	5.73
	July.....	10.77	7.38	3.70	13.63	4.69	9.87	9.50	5.35	2.26	3.33
	August.....	9.23	13.18	4.94	33.09	9.90	35.75	5.59	5.83	6.29	16.15
	September.....	10.77	14.55	6.79	20.33	14.06	33.53	2.79	5.83	17.10	23.44
	October.....	10.77	7.27	11.73	7.84	12.50	10.33	3.35	6.42	20.81	3.35
	November.....	6.92	4.55	16.05	3.92	15.62	2.19	1.68	5.52	15.65	6.35
	December.....	3.46	3.48	16.67	3.65	13.54	1.54	5.59	7.49	12.55	4.17
	Unknown.....	.....	.....	.....	.....	.....	.22	.....	.....	.32	1.04
		Av. Month.....	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33
AGES.	Under 5.....	9.23	62.12	56.42	92.16	43.96	74.73	76.53	59.89	10.00	96.35
	5 to 10.....	.....	9.39	10.49	1.23	31.25	5.92	9.50	26.92	8.55	1.56
	10 to 15.....	2.31	5.76	1.35	.24	11.98	1.97	3.91	7.13	9.19	.52
	15 to 20.....	.77	3.33	.....	.....	3.13	1.75	4.47	2.67	12.36	.....
	20 to 25.....	1.54	2.73	.....	.74	.52	.88	2.79	1.07	11.93	.....
	25 to 30.....	3.34	3.03	.....	.24	.52	1.31	.56	.18	9.63	.....
	30 to 35.....	1.54	2.42	.....	.24	.52	.66	.56	.58	3.23	.....
	35 to 40.....	1.54	1.82	.....	.....	.....	.22	.....	.18	4.19	.....
	40 to 45.....	10.00	2.13	.....	.....	.52	.88	1.12	.....	4.34	.....
	45 to 50.....	7.69	2.12	.....	.49	.52	1.09	.....	.....	3.71	.....
	50 to 55.....	11.54	2.12	.....	.49	.52	1.75	.....	.....	4.52	.....
	55 to 60.....	13.85	.30	.....	.74	.52	.66	.56	.18	4.52	.....
	60 to 65.....	12.31	1.21	.....	.24	.....	1.75	.....	.....	4.03	.....
	65 to 70.....	6.15	.30	.....	.74	.....	1.54	.....	.....	3.37	.....
	70 to 75.....	6.92	.....	.....	.24	.....	1.32	.....	.....	2.74	.....
75 to 80.....	5.83	.30	.....	1.23	.52	1.54	.....	.....	1.13	.....
80 and over.....	2.31	.....	.....	.24	.....	1.32	.....	.....	1.13	.....
	Unknown.....	3.03	.91	1.23	.74	.52	.66	.....	1.25	.43	1.56

EXHIBIT K.—Deaths in Michigan from Croup, by Months, during the Year 1872, and some Meteorological Conditions existing at the same time.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP, GREATEST FIRST.	DEATHS.		THERMOMETER-FAHRENHEIT: MEAN OF THREE DAILY OBSERVATIONS,—AT 7 A. M., 2 P. M., AND 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC.,—MONTHLY AVERAGES.						OZONE OBSERVATIONS.	
	Number.	Per Cent. of Total.	Range.		Temperature.	Rain-fall in inches.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor in inches.	Weight, in grains, of Vapor in cubic foot of Air.	Weight, in Troy ounces, of Vapor inhaled by one person in 24 hrs. b	Weight, in Troy oz., of Vapor exhaled from Air Passages in 24 hrs. in excess of Vapor inhaled.	Day.	Night.
			Daily.	From day to day,—2 P. M. to 2 P. M.									
Year 1872.....	163	100.00	15.81°	19.14°	45.51°	26.838	88	.328	8.70	2.31	9.37	2.82	4.24
December.....	27	16.67	12.03°	12.86°	15.71°	1.060	91	.092	1.18	.71	10.97	5.81	6.84
November.....	26	16.05	12.10	18.48	29.80	.980	89	.153	1.89	1.18	10.50	4.60	6.17
October.....	19	11.73	18.89	21.58	47.44	.670	81	.295	8.40	2.18	9.45	1.93	3.18
February.....	15	9.26	20.41	23.21	21.81	.490	84	.100	1.23	.77	10.91	4.00	6.00
Monthly Average.....	13.50	8.33	15.81	18.14	45.51	2.238	88	.328	8.70	2.31	9.37	2.82	4.24

Loss than the Average No. of Deaths.	18	8.02	9.57	13.28	21.50	.427	88	.107	41.81	.52	10.56	4.50	5.44
January.....	18	8.02	9.57	13.28	21.50	.427	88	.107	41.81	.52	10.56	4.50	5.44
March.....	18	8.09	17.32	19.97	24.75	2.040	85	.109	41.82	.58	10.85	8.00	5.71
April.....	18	8.09	16.10	20.20	47.89	1.960	74	.960	42.99	1.87	9.51	2.63	5.80
September.....	11	6.79	16.00	19.00	62.08	5.212	85	.493	5.57	8.48	8.20	1.40	1.86
August.....	9	4.94	15.32	17.61	71.22	4.190	83	.650	7.15	4.47	7.21	.98	.99
May.....	7	4.32	12.80	13.65	58.45	3.720	77	.850	4.29	2.68	9.00	2.14	8.34
July.....	6	8.70	16.45	19.55	74.91	3.860	77	.671	7.83	4.53	7.10	.88	2.23
June.....	4	2.47	16.40	19.43	71.82	3.454	78	.616	6.73	4.24	7.44	1.91	8.23

a Approximate.—Calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated.)

b Calculated for 18 respirations per minute, of 90 cubic inches of air each.

c Assuming the air exhaled to be saturated with vapor at the temperature of 93° F., each cubic foot containing 13.69 grains, 18 respirations per minute, of 90 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

d Exception to the proposition, that more than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa. It should be borne in mind that probably a less proportion of the deaths were returned for months in the early part of the year.

The meteorological data for Exhibits K, L, M, 12, 13, 14, O, and P, and Tables XXX. and XXXI. were obtained from the Report of the State Board of Agriculture for the year 1872, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing. The calculations of Range of Temperature and Weights of Vapor have been made in this State Department.

Croup.—There were more deaths from this disease in Michigan in 1872 than in 1870 or 1871, and as usual an excess of males, the proportion being greater than in 1871, and about the same as in 1870. In 1872 a greater proportion of deaths from all causes resulted from Croup than in 1870, but a less proportion than in 1871.

The greatest number of deaths from Croup occurred in December in each of the years 1870, 1871, and 1872; and, as usual, an extremely large percentage were of those under 5 years of age, in 1872 the percentage being 86.42.

Exhibit K gives evidence of the truthfulness of the proposition stated in last report, viz.: "that when there is less than the average number of deaths from Croup the atmosphere is warm and moist, while these conditions are not found to prevail when more than an average number of deaths occur from this disease."

Diphtheria.—The number of deaths from Diphtheria in 1872 was 192, while for 1870 and 1871 the number was 121, the excess being of females in each year. The proportion of deaths from this disease has been constantly increasing since 1870. The largest number in 1872 appears for November, although the high death-rate begins in August and lasts throughout the year. 48.96 per cent. of the deaths are of persons under 5 years of age, and a very large proportion are of persons under 15 years of age.

EXHIBIT L.—Deaths in Michigan from Croup and Diphtheria, by Months, during the Year 1872, and some Meteorological Conditions existing at the same time.*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP AND DIPHTHERIA, GREATEST FIRST.	DEATHS.		Thermom. — Fahrenheit; Mean of three Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc.,—Monthly Averages.					Ozone, Relative. Maximum is 10.		
	Number.	Per Cent. of Total.	RANGE.		Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours, in excess of Vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	
			Daily.	From Day to Day,—2 P. M. to 2 P. M.									
Year 1872.....	854	100.00	15.31°	18.14°	45.54°	88	.828	8.70	2.81	9.87	2.92	4.24	
More than the Average No. of Deaths.	Nov..	56	15.93	12.10°	13.43°	29.80°	89	.158	1.89	1.18	10.50	4.60	6.17
	Dec..	58	14.97	12.03	12.86	15.74	91	.092	1.18	.71	10.97	5.81	6.84
	Oct...	48	12.15	18.89	21.58	47.44	84	.295	8.40	2.18	9.45	1.93	3.18
	Sept..	88	10.78	16.50	19.00	43.03	85	.498	5.57	3.45	8.20	1.40	1.56
Average.....	29.50	8.83	15.81	18.14	45.54	88	.828	8.70	2.81	9.87	2.92	4.24	
Less than the Average No. of Deaths.	Jan..	28	7.91	9.87	12.28	21.50	89	.107	1.81	.82	10.86	4.50	5.44
	Aug..	27	7.68	15.82	17.61	71.22	88	.650	7.15	4.47	7.21	.98	.99
	Feb...	26	7.84	20.41	23.21	21.84	84	.100	1.28	.77	10.91	4.00	6.00
	Mar...	22	6.91	17.82	19.97	24.75	85	.109	1.82	.83	10.85	3.00	5.71
	Apr...	19	5.87	16.10	20.20	47.89	74	.260	2.99	1.87	9.81	2.63	5.80
	July..	15	4.94	16.45	19.55	74.91	77	.671	7.83	4.58	7.10	.88	2.28
	May..	14	8.95	12.80	18.65	58.48	77	.380	4.29	2.68	9.00	2.14	3.84
June..	13	8.67	16.40	19.48	71.82	78	.616	6.78	4.24	7.44	1.91	3.23	

* See note on page 874.

^a See foot-notes to Exhibit K, page 359.

^b Exceptions to the proposition that *more* than an average number of deaths from Croup and Diphtheria occurred in months in which the mean temperature was *less* than the average, and *vice versa*.

^c Exceptions to the proposition that *more* than an average number of deaths from Croup and Diphtheria occurred in months in which there was *less* than the average quantity of vapor inhaled, and *vice versa*.

EXHIBIT M.—Deaths in Michigan from Diphtheria, by Months, during the Year 1872, and some Meteorological Conditions existing at the same time.*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM DIPH- THERIA, GREATEST FIRST.	DEATHS.		Thermom. — F a h- renheit: Mean of three Daily Obser- vations,—at 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc.,—Monthly Averages.					Ozone, Relative. Maxi- mum is 10.		
	Number.	Per Cent. of Total.	RANGE.		Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hrs., in excess of Vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	
			Daily.	From Day to Day,—2 P. M. to 2 P. M.									
Year 1872.....	192	100.00	15.81*	19.14*	45.54*	88	.828	8.70	2.81	9.87	2.82	4.24	
More than the Av. No. of Deaths.	Nov.....	80	15.68	12.10*	18.48*	29.80*	89	.158	1.89	1.18	10.50	4.60	6.17
	Sept.....	27	14.07	16.80	19.00	62.08	85	.498	5.57	3.48	8.20	1.40	1.36
	Dec.....	26	18.54	12.08	12.86	15.74	91	.099	1.18	.71	10.97	5.81	6.54
	Oct.....	24	12.50	18.39	21.55	47.44	84	.295	8.40	2.18	9.45	1.38	3.19
	Aug.....	19	9.90	15.82	17.61	71.22	88	.650	7.15	4.47	7.21	.98	.99
Average.....	16	8.88	15.81	18.14	45.54	88	.828	8.70	2.81	9.37	2.82	4.24	
Less than the Average No. of Deaths.	Jan.....	15	7.81	9.57	12.28	21.59	88	.107	1.81	.82	10.86	4.50	5.44
	Feb.....	11	5.78	20.41	23.21	21.84	84	.100	1.28	.77	10.91	4.00	6.00
	March.....	9	4.69	17.82	19.97	24.75	85	.109	1.82	.88	10.85	3.00	5.71
	June.....	9	4.69	16.40	19.48	71.82	78	.616	6.78	4.24	7.44	1.91	3.22
	July.....	9	4.69	16.45	19.55	74.91	77	.671	7.88	4.56	7.10	.88	2.28
	May.....	7	8.65	12.80	18.65	58.48	77	.890	4.29	2.68	9.00	2.14	3.34
	April.....	6	8.12	16.10	20.20	47.89	74	.260	2.99	1.87	9.81	2.68	5.80

* See note on page 374.

^a See foot-notes to Exhibit K, page 359.

^b Exceptions to the proposition that *more* than an average number of deaths from Diphtheria occurred in months in which the mean temperature was *less* than the average, and *vice versa*.

^c Exceptions to the proposition that *more* than an average number of deaths from Diphtheria occurred in months in which there was *less* than the average quantity of vapor inhaled, and *vice versa*.

EXHIBIT 12.—*By Months and Sex, the Number of Deaths from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, and Meningitis, returned as having occurred in Michigan during the year 1869.*

CAUSES OF DEATH.	SEX.	Year 1869.	MONTHS,—1869.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
TOTAL	Total	18	1	.....	2	4	2	2	.....	.....	1	.....	.....	1
	Males	6	.....	.....	1	2	.....	1	.....	.....	1	.....	.....	1
	Fe's..	7	1	.....	1	2	2	1	.....	.....	.....	.....	.....	.....
Cerebro-spinal Meningitis ..	Total	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Males	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Fe's..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Spotted Fever..	Total	5	.....	.....	1	4	.....	.....	.....	.....	.....	.....	.....	.....
	Males	3	.....	.....	1	2	.....	.....	.....	.....	.....	.....	.....	.....
	Fe's..	2	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Spinal Menin- gitis	Total	6	1	.....	1	.....	2	1	.....	.....	1	.....	.....	.....
	Males	2	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....
	Fe's..	4	1	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....
Meningitis	Total	3	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
	Males	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	Fe's..	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....

Casualty.—It will be seen from Table XVII., page 310, that the number of deaths compiled under the head “Casualty” was, since 1869, constantly increasing until 1872 when the number is much less than in 1871, and slightly less than in 1869 and 1870. Heretofore deaths from Falling Trees were compiled with Casualty, but there were so many this year the compiler thought best to specify that as a cause of death. There were 21 deaths from this cause, which added to the number compiled as “Casualty,” will make the total number larger than in 1869 or 1870, but still much smaller than in 1871. Exhibit 9, page 350, shows the causes of death included in “Casualty.” Out of the 175 deaths from Casualty, only 22 were females.

EXHIBIT 13.—*By Months and Sex, the Number of Deaths from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, and Meningitis, returned as having occurred in Michigan during the year 1870.*

CAUSES OF DEATH.		Sex.	Year 1870.	MONTHS,—1870.											
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
TOTAL.....	Total	11	1	2	---	1	---	---	---	1	1	1	---	4	
	Males	5	1	2	---	---	---	---	---	---	---	1	---	1	
	Fe's..	6	---	---	---	1	---	---	---	1	1	---	---	3	
Cerebro-spinal Meningitis..	Total	1	1	---	---	---	---	---	---	---	---	---	---	---	
	Males	1	1	---	---	---	---	---	---	---	---	---	---	---	
	Fe's..	---	---	---	---	---	---	---	---	---	---	---	---	---	
Spotted Fever	Total	2	---	2	---	1	---	---	---	---	1	1	---	3	
	Males	4	---	2	---	---	---	---	---	---	---	1	---	1	
	Fe's..	4	---	---	---	1	---	---	---	---	1	---	---	2	
Spinal Menin- gitis.....	Total	1	---	---	---	---	---	---	---	---	---	---	---	1	
	Males	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Fe's..	1	---	---	---	---	---	---	---	---	---	---	---	1	
Meningitis....	Total	1	---	---	---	---	---	---	---	1	---	---	---	---	
	Males	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Fe's..	1	---	---	---	---	---	---	---	1	---	---	---	---	

Cerebro-spinal Meningitis.—Heretofore this disease has not attracted much attention; but as for the year 1872 quite a number of deaths were returned as caused by this disease, tables have been constructed to show some facts concerning the disease in the years preceding, and as there are several names given to it in different localities, and a few diseases quite closely related, the facts concerning these are also tabulated. The details relating to these diseases can be seen in Table XVII., pages 332-333, and in Exhibits 12, 13, 14, 15, and 16. On page 341 it may be seen that a greater number of deaths from "Spine Diseases" were returned for 1872 than for any previous year.

EXHIBIT 14.—*By Months and Sex, the Number of Deaths from Cerebro-spinal Meningitis, Spinal Meningitis, and Meningitis, returned as having occurred in Michigan during the year 1871.*

CAUSES OF DEATH.		Sex.	Year 1871.	MONTHS,—1871.											
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
TOTAL-----	Total	23	2	....	3	1	3	1	....	....	2	....	1	9
	Males	9	....	....	1	....	....	....	....	....	1	....	1	6
	Fe's..	12	2	....	1	1	3	1	....	....	1	....	....	3
	Unk'n	1	....	....	1	....	....	....	....	....	....	....	....	....
Cerebro-spinal Meningitis *	Total	18	1	....	1	1	3	1	....	....	2	....	....	9
	Males	7	....	....	....	....	....	....	....	....	1	....	....	6
	Fe's..	10	1	....	....	1	3	1	....	....	1	....	....	3
	Unk'n	1	....	....	1	....	....	....	....	....	....	....	....	....
Spinal Menin- gitis -----	Total	2	....	....	2	....	....	....	....	....	....	....	....	....
	Males	1	....	....	1	....	....	....	....	....	....	....	....	....
	Fe's..	1	....	....	1	....	....	....	....	....	....	....	....	....
Meningitis....	Total	2	1	....	....	....	....	....	....	....	....	....	1	....
	Males	1	....	....	....	....	....	....	....	....	....	....	1	....
	Fe's..	1	1	....	....	....	....	....	....	....	....	....	....	....

* Includes 16 from "Spotted Fever."

If only the deaths returned as having been caused by "Cerebro-spinal Meningitis" and "Spotted Fever" are grouped, instead of all from the diseases grouped in Exhibit 16, page 367, the order of months and number of deaths in each will be: April 37, May 30, March 22, June 17, Average 15.6, September 15, August 14, December 13, July 11, October 11, February 8, January 6, November 4. It will be seen that the Average is thus raised above September. This will make one more exception than shown in Exhibit 16 as regards Daily Range of thermometer, Range of thermometer "from

day to day," Force of Vapor, Weight of Vapor in Cubic Foot of Air, and Ozone, day and night,—and one less exception than there shown in the columns for Relative Humidity and for Atmospheric Pressure.

EXHIBIT 15.—*By Months and Sex, the Number of Deaths from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Acute Meningitis, returned as having occurred in Michigan during the year 1872.*

CAUSES OF DEATH.		Sex.	Year 1872.	MONTHS,—1872.											
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
TOTAL	Total		248	7	12	30	42	38	22	17	18	22	16	5	19
	Males		144	5	7	16	27	25	12	9	8	12	9	3	11
	Fe's..		104	2	5	14	15	13	10	8	10	10	7	2	8
Cerebro-spinal Meningitis..	Total		79	2	1	10	18	9	8	3	6	6	7	2	7
	Males		41	2	1	5	9	4	5	2	....	2	4	2	5
	Fe's..		38	....	....	5	9	5	3	1	6	4	3	....	2
Spotted Fever	Total		109	4	7	12	19	21	9	8	8	9	4	2	6
	Males		70	3	5	7	15	15	5	3	5	5	2	1	4
	Fe's..		39	1	2	5	4	6	4	5	3	4	2	1	2
Spinal Menin- gitis	Total		47	....	2	6	4	7	3	3	3	7	5	1	6
	Males		23	....	1	2	2	5	....	1	2	5	3	....	2
	Fe's..		24	....	1	4	2	2	3	2	1	2	2	1	4
Meningitis....	Total		12	1	2	2	1	1	1	3	1	....	....	....	....
	Males		9	....	....	2	1	1	1	3	1	....	....	....	....
	Fe's..		3	1	2	....	....	....	....	....	....	....	....	....	....
Meningitis, Acute	Total		1	....	....	....	....	....	....	....	....	....	....	....	....
	Males		1	....	....	....	....	....	....	....	....	....	....	....	....

EXHIBIT 16.—Deaths returned as having occurred in Michigan from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Acute Meningitis, by Months, during the Year 1872, and some Meteorological Conditions existing at the same time.*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CEREBRO-SPINAL MENINGITIS, SPOTTED FEVER, SPINAL MENINGITIS, MENINGITIS, AND ACUTE MENINGITIS, GREATEST FIRST.	Deaths.		Thermom.—Fahrenheit; Mean of 8 Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.			Humidity, etc.,—Monthly Averages.			Ozone,—Relative Maximum—10.		Barometer Reduced to 32° Fahrenheit—Mean.
	Number.	Per Cent. of Total.	Range.		Temperature.	Relative Humidity or Per Ct. of Saturat'n.	Force or Pressure of Vapor in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	
			Dally.	From day to day,—2 P. M. to 2 P. M.							
Year 1872.....	249	100.00	15.81*	18.14*	45.54*	88	.325	8.70	2.52	4.24	26.887
More than the Av. No. of Deaths.	April ..	42	16.94	16.10*	20.20*	74	•.260	7.99	2.63	5.80	28.852
	May.....	38	15.32	12.80	18.65	77	.380	4.29	2.14	8.84	28.868
	March....	30	12.10	17.82	19.97	85	•.109	7.183	8.00	5.71	28.911
	June.....	22	8.87	16.40	19.48	78	.616	6.78	1.91	8.23	28.879
	Sept.....	22	8.87	16.50	19.00	85	.493	5.57	1.40	1.86	28.890
Average.....	21	8.88	15.81	18.14	45.54	88	.325	8.70	2.62	4.24	28.887
Less than the Av. No. of Deaths.	Dec.....	19	7.66	12.08	12.86	91	.092	1.18	5.81	6.64	28.992
	Aug....	16	7.28	15.82	17.61	88	•.650	7.15	5.98	5.99	28.967
	July....	17	6.85	16.45	19.55	77	•.671	7.38	5.88	5.28	28.924
	Oct.....	16	6.45	18.39	21.58	84	.295	8.40	5.98	8.18	28.979
	Feb.....	12	4.84	20.41	28.21	84	.100	1.23	4.00	6.00	28.842
	Jan....	7	2.82	9.57	12.28	88	.107	1.81	4.50	5.44	28.888
	Nov....	5	2.02	12.10	18.48	89	.158	1.69	4.60	6.17	28.881

* See note on page 374.

^a See foot-notes to Exhibit K, page 359.

^b Exceptions to the proposition that the Daily Range of temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^c Exceptions to the proposition that the Range of temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^d Exceptions to the proposition that the Relative Humidity was *less* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.

^e Exceptions to the proposition that the Force of Vapor was *greater* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.

^f Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^g Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^h Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *less* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.

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EXHIBIT 17.—Deaths returned as having occurred in Michigan from Congestive Chills, by months, during the year 1872, and some Meteorological Conditions existing at the same time.*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CONGESTIVE CHILLS, GREATEST FIRST.	DEATHS.		Thermometer — Fahrenheit. height: Mean of 8 Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.		Humidity of Atmosphere, etc.,—Monthly Averages.						Ozone,—Rel- ative. Maxi- mum—10.		Barometer Reduced to 82° Fahr- en- heit—Mean.	Rain and Melted Snow, in Inches.	Range of Barometer.	
	Number.	Per Cent. of Total.	Range.		Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Va- por, in Inches.	Weight, in Grains, of Va- por in cubic foot of Air.	Weight, in Ounces, Troy, of Vapor Inhaled by one Person in 24 hours.	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours, in ex. of Vapor Inhaled.	Day—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.					
			Daily.	From day to day,— 2 P. M. to 9 P. M.												
Year 1872.....	180	100.00	15.81°	18.14°	83	.828	8.70	2.81	9.87	2.82	.24	1.002	28.887	26.838	1.002	.123
More than the Average No. of Deaths.	83	25.89	16.56°	19.00°	85	.496	5.57	3.48	8.20	1.40	1.86	.897	28.890	5.212	.897	1.116
	21	16.15	15.82	17.61	88	.650	7.15	4.47	7.21	.98	.99	.372	28.967	4.190	.372	1.060
	18	18.85	18.39	21.55	84	.295	8.40	2.18	9.45	1.98	8.15	.901	28.979	.670	.901	.128
	11	8.46	12.10	18.43	89	.168	1.80	1.18	10.50	4.60	6.17	1.147	28.881	.990	1.147	.153
Average.....	11	8.89	15.81	19.14	83	.828	8.70	2.81	9.87	2.82	4.24	.908	28.887	2.988	.908	.123

Number of Deaths.	9	6.92	12.03	12.86	15.74	91	.098	1.18	.71	10.97	5.81	6.84	28.992	1.000	.917	1.177
December	7	5.86	b 17.82	c 19.97	24.75	85	.109	1.32	.58	10.55	3.00	5.71	28.011	2.040	b 1.121	1.166
March	7	5.83	b 16.10	c 20.20	d 47.89	74	.260	2.99	1.67	9.81	f 2.63	5.90	28.502	1.900	b .961	.192
April	7	5.88	b 16.45	c 19.55	d 74.91	77	.671	* 7.33	4.53	7.10	f .58	f 2.28	28.924	3.860	.404	.081
July	0	4.62	12.80	c 18.65	d 58.48	77	.880	* 4.29	2.68	9.00	f 2.14	f 3.84	28.868	3.720	.572	.116
May	5	8.85	b 20.41	c 23.21	21.34	84	.100	1.23	.77	10.91	4.00	6.00	28.542	.400	b 1.107	.111
February	4	8.08	b 16.40	c 19.48	d 71.82	73	.616	* 6.78	4.24	7.44	f 1.91	f 3.28	28.579	3.454	b 1.512	.069
June	2	1.54	9.87	12.28	21.59	58	.107	1.31	.83	10.86	4.50	5.44	28.838	.427	b 1.928	1.173
January																

* See note on page 374.

a See foot-notes to Exhibit K, page 359.

b Exceptions to the proposition that the Daily Range of Temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

c Exceptions to the proposition that the Range of Temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

d Exceptions to the proposition that the Temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

e Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

f Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

g Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

h Exceptions to the proposition that the Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

i Exceptions to the proposition that the Mean Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Exhibits 17 and 18 show, as was expected, a very close resemblance in the statements relative to Congestive Chills and Intermittent Fever. The propositions and exceptions, indicated by foot-notes, are about the same for the two specified causes of death.

EXHIBIT 18.—Deaths returned as having occurred in Michigan from Intermittent Fever, by Months, during the Year 1872, and some Meteorological Conditions existing at the same time.*

DEATHS.	Thermom.—Fahrenheit: Mean of three Daily Observations—at 7 A. M., 3 P. M., and 9 P. M.	Range.		Temperature.	Relative Humidity or Per Cent. of Saturation.	Force or Pressure of Vapor in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.*	Weight, in Ounces, Troy, of Vapor Inhaled by one Person in 24 hours.*	Weight, in Ounces, Troy, of Vapor Exhaled from Air passages in 24 hours, in excess of Vapor inhaled.*	Humidity of Atmosphere, etc.,—Monthly Averages.			Ozone,—Relative. Maximum—10.	Barometer Reduced to 32° Fahrenheit—Mean.	Rain and Melted Snow, in Inches.		Range of Barometer.
		Daily.	From day to day,—3 P. M. to 3 P. M.							Per Cent. of Total.	Number.	Monthly.			Mean Daily.		
Year 1873.....	60	100.00	15.81°	18.14°	45.54°	.828	8.70	2.81	9.37	2.82	4.24	98.887	26.558	1.902	.128		
September.....	18	30.00	16.50°	19.00°	62.08°	.498	5.57	3.45	8.20	1.40	1.86	28.890	5.212	b .887	1.116		
August.....	9	15.00	15.82°	17.61°	71.22°	.650	7.15	4.47	7.21	.98	.99	28.967	4.190	b .372	1.060		
October.....	9	15.00	18.89	21.58	47.44	.295	8.40	2.18	9.45	1.98	2.18	28.979	.670	b .901	.128		
November.....	6	10.00	19.10°	13.43°	49.80	.128	1.59	1.18	10.50	4.60	6.17	28.981	.980	1.147	.158		
More than the Average No. of Deaths.....	9	8.98	15.81	18.14	45.54	.828	8.70	2.81	9.37	2.82	4.24	98.887	2.288	.938	.128		
Average	9	8.98	15.81	18.14	45.54	.828	8.70	2.81	9.37	2.82	4.24	98.887	2.288	.938	.128		

Less than the Average No. of Deaths.		4	6.67	10.41	12.91	84	1.00	1.23	.77	10.91	4.00	6.00	28.849	.490	b 1.170	.111
February.....	-----	8	5.00	b 16.40	c 19.43	78	.616	e 6.78	4.34	7.44	f 1.91	2.28	28.879	8.454	b 1.512	.069
June.....	-----	8	5.00	b 16.45	c 19.55	77	.671	e 7.38	4.38	7.10	f .83	2.28	28.924	8.360	.404	.081
July.....	-----	9	8.33	9.87	19.23	58	.107	1.81	.83	10.86	4.50	5.44	28.888	.487	b 1.928	1.178
January.....	-----	9	8.33	b 17.33	c 19.97	85	.109	1.82	.88	10.85	8.00	5.71	28.911	2.040	b 1.121	1.166
March.....	-----	2	8.33	b 16.10	c 20.90	74	.260	2.99	1.87	9.81	2.68	5.90	28.853	1.260	b .961	.193
April.....	-----	2	8.33	12.08	12.86	91	.092	1.18	.71	10.97	5.81	6.84	28.992	1.060	.917	1.177
December.....	-----	2	8.33	12.08	12.86	91	.092	1.18	.71	10.97	5.81	6.84	28.992	1.060	.917	1.177
May.....	-----	-----	12.90	c 18.65	d 38.48	77	.880	e 4.99	2.68	9.00	2.14	2.84	28.868	8.720	.572	.116

* See note on page 374.

a See foot-notes to Exhibit K, page 339.

b Exceptions to the proposition that the Daily Range of Temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

c Exceptions to the proposition that the Range of Temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

d Exceptions to the proposition that the Temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

e Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

f Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

g Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.

h Exceptions to the proposition that the Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

i Exceptions to the proposition that the Mean Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Exhibits 18 and 19 may support the hypothesis that Intermittent Fever and Typhoid Fever are so correlated that when one prevails the other does not, or is not so prevalent as at other times; since the propositions which hold in a majority of instances in the Exhibit for Intermittent Fever have more exceptions than examples in that for Typhoid Fever, and might, therefore, be reversed in the last Exhibit. In studying the causes of these diseases it should be remembered that the period of sickness is longer in Typhoid Fever.

EXHIBIT 19.—Deaths returned as having occurred in Michigan from Typhoid Fever, by months, during the year 1872, and some Meteorological Conditions existing at the same time. *

MONTHS IN ORDER BY NUMBER OF DEATHS FROM TYPHOID FEVER, FROM TYPHOID FEVER, GREATEST FIRST.	DEATHS.		Thermometer.—Fahren- heit: Mean of 8 Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.		Humidity of Atmosphere, etc.,— Monthly Averages.							Ozone.—Rel- ative Maxi- mum—10.		Barometer Reduced to 32° Fahren- heit—Mean.		Rain and Melted Snow, in Inches.		Range of Barom- eter.	
	Number.	Per Cent. of Total.	Range.		Temperature.	Relative Humidity, or Per Cent. of Satur- ation.	Force or Pressure of Vapor in Inches.	Weight, in Grains, of Vapor in cubic foot of Air. *	Weight, in Ounces, Troy, of Vapor Inhaled by one Person in 24 hours. *	Weight, in Ounces, Troy, of Vapor Exhaled from Air passages in 24 hours, in excess of Vapor In- haled. *	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	Barometer Reduced to 32° Fahren- heit—Mean.	Monthly.	Mean Daily.	Monthly.	Mean Daily.		
			Daily.	From day to day,— 2 P. M. to 2 P. M.															
Year 1873.....	618	100.00	15.31°	18.14°	45.54°	88	.392	3.70	2.31	9.37	2.82	4.24	93.857	29.838	1.902	.123			
October.....	129	20.87	13.99°	21.55°	47.44°	84	.295	7.40	2.18	9.45	1.98	3.18	93.979	.670	1.901	.128			
September.....	106	17.15	16.50	19.00	62.03	85	.498	5.57	2.48	8.20	1.40	1.86	93.890	5.212	1.597	.116			
November.....	97	15.70	12.10	13.48	29.80	89	.168	7.89	1.18	10.00	4.60	6.17	93.881	.980	1.147	.153			
December.....	72	12.62	12.03	13.86	15.74	91	.092	7.13	.71	10.37	5.81	6.84	93.902	1.060	1.917	.177			
More than the Av. Number of Deaths.																			
Average.....	62	8.38	15.31	13.14	45.54	83	.393	3.70	2.31	9.37	2.83	4.24	93.857	2.238	.938	.123			

	40	6.47	16.10	49.20	47.39	74	2.99	1.57	9.81	2.63	5.30	28.892	1.960	1.961	.192
April	39	6.31	15.33	17.61	71.92	88	7.15	4.47	7.91	2.93	5.99	28.967	4.130	873	.060
August	26	4.31	17.83	49.37	24.75	85	1.32	.88	10.85	3.00	6.71	28.911	9.040	1,131	.166
March	25	4.05	20.41	48.31	21.34	84	1.28	.77	10.91	4.00	6.00	28.842	.490	1,107	.111
February	25	4.05	12.80	48.65	58.45	77	3.80	2.63	9.00	2.14	8.34	28.868	3.720	.873	.116
May	24	3.88	16.40	49.43	71.52	78	6.16	4.34	7.44	1.91	8.28	28.879	3.454	1,1512	.069
June	15	2.43	9.87	12.23	21.59	83	1.07	.83	10.86	4.50	5.44	28.885	.427	1,1228	.178
January	14	2.26	16.45	49.55	74.91	77	7.28	4.53	7.10	2.88	5.23	28.924	3.860	.404	.081
July															

Less than the Average
Number of Deaths.

* See note on page 374.

a See foot-notes to Exhibit K, page 359.

b Excluding two in unknown month.

c Excluding to the proposition that the Daily Range of Temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

d Exceptions to the proposition that the Range of Temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

e Exceptions to the proposition that the Temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

f Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

g Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

h Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

i Exceptions to the proposition that the Range of Barometer was *greater* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.

j Exceptions to the proposition that the Mean Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Typhoid Fever.—More deaths were returned as having been caused by this disease in 1872 than in any previous year; 1870 is the next in order, 1869 the third, and 1871 shows the least number. This is shown in Table XVII., page 321. There is an excess of deaths of males in each year except in 1870, the excess of males being greater in 1872 than in any other year. The largest number of deaths occurred in October, as usual; the next largest number in September, and the smallest in July. The greatest mortality is among persons between the ages of fifteen and twenty-five years. The proportions at the different ages are shown in Table XX., page 357.

This disease is of such consequence that it has seemed proper to make a closer investigation of it than heretofore; accordingly, Exhibit 19 has been constructed as a contribution to a study of the relations of this disease to different meteorological conditions. The tables, etc., concerning this disease are placed here, out of alphabetical order, so that comparisons may more readily be made between this disease and Intermit-tent Fever.

On account of the importance of Consumption and Pneumonia, the remarks concerning them are postponed to subsequent pages, in order that more study and space may be devoted to them, and that they may be studied in connection with each other.

NOTE.—In the several exhibits such as K, L, M, O, P, and 16, 17, 18, 19, and 20, wherein are tabulated by months certain diseases and the meteorological conditions during the same time, the meteorological portions of the exhibits have been constructed from records of observations made at one place only,—at the Agricultural College, near Lansing, as mentioned on page 359; but if we except the Upper Peninsula, the place of observation is nearly in the center of the population in which the deaths reported have occurred. This way of approaching the very important subjects studied in the exhibits referred to is not free from objections, but it is at least an attempt, and is perhaps the best that can be done under present circumstances.

TABLE XXI.—*Exhibiting, for the State and for eleven Geographical Divisions of the State, during the Year 1872, the Number of Deaths returned as having occurred from Diarrhea and from Dysentery, and the Per Cent. of Deaths from each Disease to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.*	DIARRHEA. ACUTE & CHRONIC.		DYSENTERY. ACUTE & CHRONIC.	
	Number of Deaths, 1872.	Per Cent. of Deaths from Diarrhea to Deaths from all Causes.	Number of Deaths, 1872.	Per Cent. of Deaths from Dysentery to Deaths from all Causes.
State.....	487	3.26	456	3.41
Upper Peninsula.....	25	4.70	6	1.18
Northwestern	26	7.22	74	20.56
Northern	8	5.55	11	7.64
Northeastern.....	8	9.80	6	6.98
Western.....	47	3.81	55	3.87
Northern Central.....	2	1.10	8	4.42
Central	40	1.74	119	5.11
Bay and Eastern.....	86	4.36	50	2.58
Southwestern	29	2.22	23	2.14
Southern Central.....	23	.88	69	2.62
Southeastern	148	5.86	30	1.28

* For counties included in each Division, see page 261.

Diarrhea.—Of the four years 1869, 1870, 1871, and 1872, 1872 ranks highest as to the number of deaths from Diarrhea, 1870 next, 1869 next, and 1871 lowest. The number returned for the year 1872 is more than double the number for 1871. The large proportion of deaths of males from this disease in 1872 is particularly noticeable. The largest number of deaths occurred in August, while September and July are next in order; and 92.16 per cent. of all deaths from this disease were of persons under five years of age. Some details respecting

the sexes and ages of decedents, and the deaths by months, are given in Tables XVII., XIX., and XX.

Table XXI. shows the proportion of deaths from Diarrhea in different parts of the State, and differs from Tables XIX. and XX. by including 29 deaths from Chronic Diarrhea. The largest number of deaths occurred in the Southeastern Division, as is the case in every previous year, but the per cent. of deaths from Diarrhea to deaths from all causes, in the different Divisions, is quite dissimilar for the several years. Although the largest number occurred in the Southeastern Division in each year, the largest proportion is found in that division only for 1870. Generally the largest proportion is found in the northerly localities of the State. To what other causes, relatively more fatal in other parts of the State, this is due, remains to be learned by further study.

Dysentery.—The order, by number, of the deaths returned as having occurred from Dysentery is the same for the several years as in the case of Diarrhea, viz.: first 1872, second 1870, third 1869, fourth 1871. Table XX. shows that in 1872 there was an excess of deaths of males, as was the case to a smaller degree in 1870; in 1871 the proportion was the same for each sex. The largest number occurred in August; 69.30 per cent. occurred in August and September; and 74.78 per cent. of all the deaths from this disease were of persons under five years of age, a considerably smaller proportion, however, than in the case of Diarrhea. There is not much similarity between the proportion of deaths from Diarrhea and Dysentery, respectively, to deaths from all causes in the different Divisions of the State; but leaving out the Upper Peninsula, the northerly localities of the State show the largest proportion of deaths from Dysentery, as is the case with Diarrhea without making the above exceptions.

Measles.—For 1872, more deaths from Measles were returned than had been for any previous year. In 1869 and 1871 there were more deaths of males than of females; in 1872 the reverse

is true, according to the returns. In 1870 and 1872, the largest number of deaths from this disease occurred in March, April, and May; for 1869, the greatest numbers were returned as having occurred in February, March, and May. Of all deaths from this disease in 1872, 76.53 per cent. were of persons under five years of age,—a less per cent. than in 1871, but a larger per cent. than in 1870. Further details may be learned by examining Tables XVII., XIX., and XX., pages 332, 356, and 357.

Scarlet Fever.—This disease can be studied in Tables XVII., XIX., and XX., and in Exhibit 20. The number of deaths returned as having been caused by this disease has been slightly decreasing since 1870. The number in 1869 was very much smaller than in any succeeding year. The excess of male decedents was about the same in 1872 as in 1870, but in 1871 there was a larger excess of females.

The largest number of deaths from Scarlet Fever occurred in February, the smallest number in June. Of the total number of deaths from this disease, 59.89 per cent. were of persons under five years of age, and 86.81 per cent. of all decedents were under 10 years of age.

This disease being one of the principal causes of death in this State during the past few years, a new Exhibit (No. 20) has been made, wherein may be studied its relations to certain meteorological conditions.

EXHIBIT 20.—Deaths returned as having occurred in Michigan from Scarlet Fever, by Months, during the Year 1872, and some Meteorological Conditions existing at the same time.*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM SCARLET FEVER, GREATEST FIRST.	DEATHS.		Thermometer—Fahrenheit; Mean of three Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc.,—Monthly Averages.					Ozone,—Relative. Maximum—10.		
	Number.	Per Cent. of Total.	RANGE.			Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours, in excess of Vapor Inhaled. ^a	Day,—7 A. M. to 9 P. M.	Night,—9 P. M. to 7 A. M.	
			Daily.	From Day to Day,—2 P. M. to 2 P. M.									
				Temperature.									
Year 1873...	561	100.00	15.81°	18.14°	45.54°	88	.823	8.70	9.81	9.37	2.93	4.24	
More than the Av. No. of Deaths.	Feb...	84	14.97	20.41°	23.21°	21.84°	84	.100	1.23	.77	10.91	4.00	6.00
	March	73	12.83	17.32	19.97	24.75	85	.109	1.32	.88	10.95	3.00	5.71
	April	64	11.41	16.10	20.20	47.89	74	.260	2.99	1.57	9.81	2.63	5.30
	May...	54	9.62	12.80	18.65	58.48	77	.390	4.29	2.68	9.00	2.14	3.84
	Jan....	58	9.45	9.87	12.23	21.59	88	.107	1.31	.82	10.56	4.50	5.44
Average	46.75	8.83	15.81	18.14	45.54	88	.823	8.70	9.81	9.37	2.93	4.24	
Less than the Average No. of Deaths.	Dec....	43	7.49	12.03	13.86	15.74	91	.092	1.13	.71	10.97	5.81	6.84
	Oct...	36	6.43	13.39	21.58	47.44	84	.295	3.40	2.13	9.45	1.98	3.15
	Aug...	33	5.88	15.82	17.61	71.22	83	.650	7.15	4.47	7.21	.98	.99
	Sept...	33	5.88	16.50	19.00	62.08	85	.493	5.57	3.48	8.20	1.40	1.86
	Nov...	31	5.53	12.10	13.43	29.80	89	.158	1.89	1.15	10.50	4.60	6.17
	July...	30	5.35	16.45	19.55	74.91	77	.671	7.33	4.55	7.10	.88	2.25
June...	29	5.17	16.40	19.43	71.83	78	.616	6.78	4.24	7.44	1.91	3.23	

* See Note on page 374.

^a See foot-notes to Exhibit K, page 359.

^b Exceptions to proposition that the Temperature was lower than the average in months in which more than the average number of deaths from Scarlet Fever occurred, and vice versa.

^c Exceptions to the proposition that the Absolute Humidity of the atmosphere was less than the average in months in which more than an average number of deaths from Scarlet Fever occurred, and vice versa.

Whooping-cough.—From this disease a larger number of deaths were returned for 1872 than for any previous year, the order by years, those having the greatest number of deaths first, being: 1872, 1869, 1870, 1871. In 1872 only, was there an excess of males, the excess of females in each of the years 1870 and 1871 being about the same as the excess of males in 1872. The greatest mortality appears for September, and 39.58 per cent. of all deaths from Whooping-cough occurred in August and September combined. Four deaths were of persons over five years of age (one person being over ten), and 96.35 per cent. of all the decedents were under five years of age.

Consumption.—There were 1,467 deaths returned as having been caused by consumption in 1872. This is 164 more than the number for 1871, but the per cent. of deaths from consumption to deaths from all causes in 1872 is only 10.97, instead of 13.39 as it was in 1871. This indicates either, 1, that the number of deaths from consumption was not increased in the same ratio as were the deaths from all causes, or, 2, that the increased number of deaths returned was due to a better return of deaths from other causes than consumption. There was, as usual, an excess of deaths of females, but the excess has been constantly decreasing since 1869, being: in 1869, 8.61 per cent.; in 1870, 3.87 per cent.; in 1871, 2.54 per cent.; and in 1872, 1.84 per cent. of the total number of deaths from consumption. A comparison of the per cent. of deaths from consumption to deaths from all causes for the years 1871 and 1872, shows a decrease in 1872 of 2.42 per cent.; and a comparison of the per cent. of deaths from pneumonia to deaths from all causes for 1871 and 1872, shows an increase in 1872 of 0.26 per cent. This is one more instance where it seems that, as stated in last Report with reference to consumption and pneumonia, "conditions tending to increase the deaths from one, tend to decrease the deaths from the other disease." In such instances as this it is possible that similar deaths are

sometimes attributed to consumption and sometimes to pneumonia. It is also possible that, when the conditions favor deaths from pneumonia, consumptives die from pneumonia, and deaths which would otherwise, a little later, have resulted from consumption are not attributed to that disease.

EXHIBIT N.—*By Sex, the Number of Deaths returned as having occurred in Michigan from Consumption during the Year 1872, by Months Equalized to Uniform Length of 30.44 days each; and also the Average Number Per Month (Deaths in Unknown Months and of persons of Unknown Sex Excluded).*

	YEAR, 1872.	MONTHS OF EQUAL LENGTH.												a c.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Total	^a 1,461	67	84	91	158	109	125	101	129	160	187	188	167	121.75
Males	718	87	83	50	88	52	55	83	61	73	71	70	95	59.53
Females	743	30	51	41	65	57	70	68	68	87	66	68	72	61.92

^a Excluding three deaths from Consumption in unknown month, and two males and one female lost in equalizing.

EXHIBIT O.—Deaths returned as having occurred from Consumption in Michigan during the year 1872, and some Meteorological Conditions existing at the same time. *

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CONSUMPTION GREATEST FIRST.	DEATHS.		Thermom. — Fahrenheit: Mean of three Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc.,—Monthly Averages.					Ozone, Relative. Maximum is 10.		
	Number.	Per Cent. of Total.	RANGE.		Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hrs., in excess of Vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	
			Daily.	From Day to Day,—2 P. M. to 2 P. M.									
Year 1872	b 1,464	100.00	15.31°	18.14°	45.54°	83	.328	3.70	2.31	9.37	2.82	4.24	
More than the Average No. of Deaths.	Dec.....	170	11.61	12.03°	12.86°	c15.74°	91	.092	1.13	d .71	10.97	5.81	6.84
	Sept....	158	10.72	16.50	19.00	62.03	85	.498	5.57	3.48	8.20	1.40	1.86
	April ..	151	10.31	16.10	20.20	47.89	74	.260	2.99	d 1.87	9.81	2.63	5.80
	Oct.....	139	9.49	18.39	21.58	47.44	84	.295	3.40	d 2.13	9.45	1.98	3.18
	Nov....	136	9.29	12.10	13.43	c29.80	89	.158	1.89	d 1.18	10.50	4.60	6.17
	Aug....	131	8.95	15.32	17.61	71.22	83	.650	7.15	4.47	7.21	.98	.99
June....	123	8.40	16.40	19.43	71.82	78	.616	6.78	4.24	7.44	1.91	3.23	
Average.....	122.00	8.33	15.31	18.14	45.54	83	.328	3.70	2.31	9.37	2.82	4.24	
Less than the Av. No. of Deaths.	May ...	111	7.58	12.80	18.65	c53.48	77	.380	4.29	d 2.68	9.00	2.14	3.84
	July ...	103	7.04	16.45	19.55	c74.91	77	.671	7.33	d 4.58	7.10	.88	2.28
	March..	93	6.35	17.92	19.97	24.75	85	.109	1.32	.88	10.85	3.00	5.71
	Feb....	80	5.46	20.41	23.21	21.34	84	.100	1.23	.77	10.91	4.00	6.00
	Jan....	69	4.71	9.87	12.23	21.59	88	.107	1.31	.82	10.86	4.50	5.44

* See Note on page 374.

^a See foot-notes to Exhibit K, page 359.

^b Three deaths in unknown month excluded.

^c Exceptions to the proposition that the Temperature was *higher* than the average in months when *more* than the average number of deaths from Consumption occurred, and *vice versa*.

^d Exceptions to the proposition that *more* than an average amount of Vapor was inhaled in months in which there was *more* than an average number of deaths from Consumption, and *vice versa*.

Two sources of error should be guarded against in studying Exhibit O. At first thought it may appear to some persons that nothing useful can be learned by comparisons of deaths from consumption by periods of time with the coincident meteorological conditions, because the cause of the disease must have acted to produce it long previously. On the other hand, one might carelessly assume that the conditions existing at such times as the greatest number of deaths from this disease occur, are also the conditions which caused the disease from which the deaths resulted. This last assumption may or may not be true, and the truth can only be learned by securing a record of first attacks of cases of this disease, and studying the coincident meteorological conditions in some such manner as in Exhibit O. But the data for such a study of the disease cannot at present be secured, and a knowledge of the conditions tending to cause the death of those sick with consumption must be valuable, because by avoiding such conditions some invalids may prolong their lives until under the most favorable conditions they may recover from the disease.

Pneumonia.—The remarks on the study of meteorological conditions coincident with deaths from consumption apply to the study of such conditions as related to deaths from pneumonia, but the period of sickness being much shorter in pneumonia, there is much greater probability of the truth of any assumption that conditions tending to cause death from this disease are also capable of causing the disease itself. When the compilation is by periods of time longer than the average duration of fatal cases of the disease, as is believed to be the fact when deaths from pneumonia are compiled by months—as in Exhibit P—it is also more probable that the conditions compiled for such periods will include those really existing at the time of the onset of the disease, and possibly, also, those which really induced the disease.

EXHIBIT P.—Deaths returned as having occurred from Pneumonia in Michigan during the year 1872, and some Meteorological Conditions existing at the same time. *

MONTHS IN ORDER BY NUMBER OF DEATHS FROM PNEUMONIA, GREATEST FIRST.	DEATHS.		Thermom.—Fahrenheit: Mean of three Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc.,—Monthly Averages.					Ozone, Relative. Maximum is 10.	
	Number.	Per Cent. of Total.	RANGE.			Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hrs., in excess of Vapor inhaled. ^a	Day,— A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.
			Daily.	From Day to Day,—2 P. M. to 2 P. M.	Temperature.							
Year 1872.....	689	100.00	15.81*	18.14*	45.54*	88	.828	8.70	2.31	9.87	2.83	4.24
More than the Average No. of Deaths.	Dec.	89	12.88	12.08*	12.86*	91	.092	1.18	.71	10.97	5.81	6.84
	April....	79	12.88	16.10	20.20	74	.260	2.99	1.87	.81	2.63	5.80
	March....	75	11.74	17.82	19.97	85	.109	1.82	.83	10.85	8.00	5.71
	Feb.	64	10.02	20.41	23.21	84	.100	1.28	.77	10.91	4.90	6.00
	Nov.	63	9.86	12.10	13.43	89	.153	1.99	1.18	10.50	4.60	6.17
	Oct.	56	8.76	18.89	21.53	84	.295	3.40	2.18	9.45	1.93	3.18
Average.....	58.25	8.33	15.81	18.14	45.54	88	.828	8.70	2.31	9.87	2.82	4.24
Less than the Average No. of Deaths.	May	58	8.29	12.80	18.65	77	.380	4.29	2.65	9.00	2.14	3.84
	Jan.	46	7.20	9.37	12.23	83	.107	1.81	.82	10.86	4.50	5.44
	Aug.	81	4.85	15.82	17.61	88	.650	7.15	4.47	7.21	.93	.99
	Sept....	29	4.51	16.50	19.00	85	.498	5.57	3.48	8.20	1.40	1.56
	June....	28	4.85	16.40	19.43	78	.616	6.78	4.24	7.44	1.91	3.23
	July	26	4.07	16.45	19.55	77	.671	7.83	4.58	7.10	.68	2.28

* See Note on page 374.

^a See foot-notes to Exhibit K, page 350.

^b Two deaths in unknown month excluded.

^c Exceptions to the proposition that the Temperature was *greater* than the average in months in which *less* than the average number of deaths from Pneumonia occurred, and *vice versa*.

^d Exceptions to proposition that *more* than an average amount of Vapor was Inhaled in months in which there was *less* than the average number of deaths from Pneumonia, and *vice versa*.

TABLE XXII.—Correlation of Consumption and Pneumonia. Deaths from Consumption and Pneumonia returned as having occurred in Michigan during the Year 1872, by Months, Exhibiting the Total Number, Number of each Sex, Per Cent. of Total, and Excess of each Sex.

YEAR AND MONTHS.	CONSUMPTION.							PNEUMONIA.										
	NUMBER.			PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.				NUMBER.			PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.							
	Males.	Females.	Total.	Per Cent. of Deaths in Each Month to Total for Year.	Males.	Females.	Total.	Males.	Females.	Total.	Per Cent. of Deaths in Each Month to Total for Year.	Males.	Females.	Total.				
															EXCESS.		EXCESS.	
															Males.	Females.	Males.	Females.
Year 1872.....	720	747	1,467	100.00	49.08	50.92	1.54	892	949	641	100.00	61.15	38.85	22.30				
January.....	39	81	60	4.71	55.07	44.93	10.14	27	19	46	7.20	58.70	41.30	17.40				
February.....	b 31	b 49	b 80	5.46	38.75	61.25	c	b 41	b 28	b 64	10.02	64.06	35.94	28.12				
March.....	b 51	b 42	b 98	6.35	54.54	45.16	9.65	b 46	b 20	b 75	11.74	61.83	38.67	22.66				
April.....	57	64	151	10.31	57.62	42.38	15.24	45	84	79	12.86	56.96	43.04	13.92				
May.....	b 58	53	111	7.58	47.75	52.25	c	b 38	20	58	8.29	62.96	37.74	24.52				
June.....	51	b 69	b 123	8.40	43.90	56.10	c	15	b 18	b 28	4.88	58.57	41.43	7.14				
July.....	84	b 69	103	7.04	38.01	61.99	c	15	b 11	26	4.07	57.69	42.31	15.88				
August.....	b 63	b 60	b 121	8.05	47.83	52.17	c	b 19	b 12	b 31	4.85	61.29	38.71	22.03				

	b 73	b 86	b 138	10.79	43.53	64.48	8.85	b 14	b 15	b 29	4.54	43.28	51.72	8.44
September.....	72	b 67	139	9.49	51.80	48.20	8.60	88	b 15	56	8.76	67.86	82.14	85.72
October.....	69	b 67	136	9.99	50.74	49.26	1.45	50	b 13	63	9.56	79.37	20.63	58.74
November.....	97	73	170	11.61	57.06	42.94	14.12	47	43	89	13.98	52.81	47.19	5.62
December.....		8	8			100.00	100.00	2		2		100.00		100.00
Unknown.....	60	62.25	132.25	8.33	43.62	59.71	11.09	82.67	20.75	53.43	8.33	68.63	39.65	29.08
Average.....														

a Deaths in unknown months excluded.

b Less than the average number of deaths from Consumption, and more than the average from Pneumonia, or vice versa.

c Five out of twelve months in which there was an excess of deaths of one sex from Consumption, and of the opposite sex from Pneumonia.

TABLE XXIII.—Correlation of Consumption and Pneumonia.—Exhibiting the Number and Per Cent. of Deaths of each Sex, the difference between the Sexes, and the Per Cent. of Total Deaths at each Period of Age from Consumption and Pneumonia in Michigan during the Year 1872.

AGES IN PERIODS OF YEARS.	CONSUMPTION.							PNEUMONIA.									
	NUMBER.			PER CENT. OF THE SEXES. (UNKNOWN SEX EXCLUDED.)				NUMBER.			PER CENT. OF THE SEXES.						
	Males.	Females.	Total.	Per Cent. of Deaths at All Ages. ^a	Excess.		Total.	Per Cent. of Deaths at All Ages. ^a	Males.	Females.	Total.	Males.	Females.	Total.			
					Males.	Females.											
															Males.	Females.	
720	747	1,467	100.00	49.08	50.92	1.84	392	249	641	100.00	61.15	38.55	92.80	22.80		
All Ages.....	62	82	144	10.08	43.06	56.94	.....	18.88	189	96	285	37.07	59.15	40.85	18.80	.....	.....
Under 5.....	7	9	16	1.11	43.75	56.25	.....	12.50	11	19	30	4.73	36.67	68.83	.....	.....	26.66
5 to 10.....	7	26	33	2.30	21.21	78.79	.....	57.58	7	6	13	2.05	53.53	46.15	7.70	.....	.....
10 to 15.....	40	73	113	8.23	33.90	66.10	.....	32.20	15	11	26	4.10	57.60	42.81	15.88	.....	.....
15 to 20.....	78	123	201	13.66	37.24	62.75	.....	25.51	15	14	29	4.57	51.72	43.27	8.45	.....	.....
20 to 25.....	70	81	151	10.52	46.36	53.64	.....	7.28	18	10	28	3.68	56.52	43.48	13.04	.....	.....
25 to 30.....	59	70	129	8.90	45.74	54.26	.....	8.93	16	2	18	2.91	83.89	11.11	77.78	.....	.....
30 to 35.....	53	59	112	7.71	47.92	52.08	.....	6.96	15	7	22	3.91	72.00	23.00	41.00	.....	.....
35 to 40.....																	

40 to 45.....	41	39	80	5.57	51.25	48.75	2.50	.....	9	18	22	8.47	40.91	50.09	.....	18.18
45 to 50.....	b 54	48	b 97	b 6.76	55.67	44.88	11.84	.....	b 16	3	b 19	b 9.00	84.31	15.79	63.49	.....
50 to 55.....	54	35	59	6.30	60.67	39.88	21.84	.....	32	12	44	6.94	72.78	27.27	45.46	.....
55 to 60.....	d 42	19	61	4.25	68.85	31.15	37.70	.....	d 19	7	36	4.10	78.08	26.92	46.16	.....
60 to 65.....	d 48	24	72	5.02	66.67	33.88	33.84	c	d 21	13	34	5.86	61.77	38.34	28.58	c
65 to 70.....	d 40	18	58	4.04	68.97	31.03	37.94	.....	d 24	13	37	5.84	64.86	35.14	29.72	.....
70 to 75.....	27	13	40	2.79	67.50	32.50	35.00	c	15	16	31	4.82	48.29	51.61	c	8.22
75 to 80.....	16	13	20	2.02	55.17	44.83	10.84	.....	11	4	15	2.37	73.88	26.66	46.67	.....
80 and over.....	7	8	10	.70	70.00	30.00	40.00	.....	6	1	7	1.10	85.71	14.29	71.42	.....
Unknown.....	20	12	32	2.13	62.50	37.50	25.00	.....	5	2	7	1.09	71.43	28.57	42.86	.....
Average.....	41.18	48.34	84.41	5.75	51.96	48.04	.....	.....	22.76	14.53	37.29	5.82	68.62	36.38	.....	.....

a Deaths at unknown ages excluded.

b More than an average number and per cent. of deaths from Consumption and less than an average number and per cent. of deaths from Pneumonia, and vice versa.

c More than an average proportion of males from Consumption, and less than an average proportion of males from Pneumonia, and vice versa.

d Less than an average number of deaths of males from Consumption, and more than an average number of deaths of males from Pneumonia, and vice versa.

e Of 17 periods of 5 years each, unknown ages excluded.

TABLE XXIV.—*Exhibiting for the State and Eleven Geographical Divisions in 1872, by Sex, the Number of Deaths from All Causes, from Consumption, from Pneumonia, and from Typhoid Fever; also the Per Cent. of Deaths from Consumption, Pneumonia, and Typhoid Fever, to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS. ^a	SEX.	All Causes.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.	
			Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
State.....	Total.....	13,371	1,467	10.97	641	4.79	630	4.64
	Males.....	7,182	720	10.08	392	5.46	340	4.73
	Females...	6,162	747	12.12	249	4.04	250	4.54
	Unknown..	27	—	—	—	—	—	—
Upper Peninsula.....	Total.....	532	47	8.83	7	1.33	17	3.20
	Males.....	314	24	7.64	5	1.59	9	2.87
	Females...	216	23	10.65	2	.93	8	3.70
	Unknown..	2	—	—	—	—	—	—
Northwestern.....	Total.....	360	26	7.22	13	3.61	24	6.67
	Males.....	184	12	6.52	7	3.80	12	6.53
	Females...	176	14	7.95	6	3.41	12	6.82
Northern.....	Total.....	144	14	9.73	3	2.08	5	3.47
	Males.....	68	11	13.25	—	—	—	—
	Females...	61	3	4.92	3	4.92	5	8.20
Northeastern.....	Total.....	86	10	11.63	—	—	2	2.33
	Males.....	43	6	13.95	—	—	1	2.33
	Females...	43	4	9.30	—	—	1	2.33
Western.....	Total.....	1,420	128	9.01	66	4.65	85	5.99
	Males.....	766	60	7.83	43	5.61	43	5.61
	Females...	651	68	10.45	23	3.53	42	6.45
	Unknown..	3	—	—	—	—	—	—

^a For counties included in each Division see page 261.

^b For counties and townships from which no returns of deaths in 1873 were received, see Exhibit H, pages 217 to 218; for those in which no deaths occurred, see Exhibit I, page 219.

^c More than an average per cent. of deaths from Consumption, and less than an average per cent. of deaths from Pneumonia, or vice versa. This is the case in four out of the eleven geographical divisions.

TABLE XXIV.—CONTINUED.

GEOGRAPHICAL DIVISIONS.	SEX.	All Causes.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.	
			Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
Northern Central.....	Total.....	181	21	*11.60	8	*4.42	15	8.29
	Males.....	94	7	7.45	7	7.45	11	11.70
	Females...	88	14	16.27	1	1.16	4	4.65
	Unknown..	1	—	—	—	—	—	—
Central	Total.....	2,297	260	11.32	189	6.05	147	6.40
	Males.....	1,198	112	9.39	91	7.63	80	6.70
	Females...	1,096	148	13.50	48	4.38	67	6.11
	Unknown..	8	—	—	—	—	—	—
Bay and Eastern.....	Total.....	1,971	159	*9.59	114	*5.78	80	4.06
	Males.....	1,076	101	9.39	69	6.41	48	4.46
	Females...	894	88	9.84	45	5.03	32	3.58
	Unknown..	1	—	—	—	—	—	—
Southwestern	Total.....	1,309	150	11.46	72	5.50	64	4.81
	Males.....	711	74	10.41	45	6.33	35	4.92
	Females...	594	76	12.79	27	4.55	29	4.88
	Unknown..	4	—	—	—	—	—	—
Southern Central.....	Total.....	2,682	348	12.98	187	5.20	188	5.05
	Males.....	1,877	159	11.55	88	5.95	74	5.87
	Females...	1,353	184	14.68	55	4.47	59	4.70
	Unknown..	2	—	—	—	—	—	—
Southeastern.....	Total.....	2,439	279	*11.44	82	*3.36	48	1.97
	Males.....	1,341	154	11.48	48	3.20	37	2.01
	Females...	1,092	125	11.45	39	3.57	21	1.91
	Unknown..	6	—	—	—	—	—	—

* More than an average per cent. of deaths from Consumption, and less than an average per cent. of deaths from Pneumonia, or *vice versa*. This is the case in four out of the eleven geographical divisions.

TABLE XXV.—*Exhibiting for the State and by Counties, for the year 1872, the number of Deaths from All Causes, from Consumption, from Pneumonia, and from Typhoid Fever; also, the Per Cent. of Deaths from Consumption, Pneumonia, and Typhoid Fever, to Deaths from All Causes.*

STATE AND COUNTIES.	All Causes.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.	
		Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
State	18,371	1,467	10.96	641	4.79	620	4.64
Alcona.....	17	2	11.76	.....	.....	.....	.....
Allegan.....	888	49	12.79	17	4.44	29	7.57
Alpena..... ^a	19	1	5.26	.....	.....	1	5.26
Antrim.....	88	8	9.09	1	3.03	8	9.09
Barry.....	208	28	18.79	18	6.40	9	4.43
Bay.....	863	22	6.06	22	6.06	15	4.13
Benzie.....	75	6	8.00	1	1.33	5	6.67
Berrien.....	442	43	9.73	24	5.43	14	3.17
Branch.....	801	39	12.96	28	7.64	15	4.98
Calhoun.....	857	50	14.01	15	4.20	16	4.43
Cass..... ^a	156	20	12.82	21	13.46	7	4.49
Charlevoix..... ^a	88	2	6.06	.....	.....	.....	.....
Cheboygan.....	19	.....	.....	.....	.....	1	5.26
Chippewa.....	82	8	9.88	.....	.....	2	6.25
Clare..... ^a	8	.....	.....	.....	.....	.....	.....
Clinton.....	258	17	6.72	12	4.74	19	7.51
Delta..... ^b	.....	.....	.....	.....	.....	.....	.....
Eaton.....	268	35	18.31	12	4.56	14	5.32
Emmet.....	88	6	21.05	.....	.....	.....	.....
Genesee.....	277	39	14.08	16	5.77	12	4.33
Grand Traverse.....	74	7	9.46	8	4.05	8	4.05
Gratiot.....	171	10	5.55	14	8.19	7	4.09
Hilledale.....	881	43	12.99	21	6.84	17	5.14

^a Except townships not represented by Returns of Deaths in 1872. See pages 217-218.

^b No returns of deaths to this Department.

TABLE XXV.—CONTINUED.

COUNTIES.	All Causes.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.	
		Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
Houghton..... ^a	128	13	9.88	-----	-----	1	.78
Huron.....	118	6	5.81	5	4.43	5	4.42
Ingham.....	306	41	13.40	17	5.56	16	5.23
Ionia.....	804	33	10.66	25	8.23	21	6.91
Iosco..... ^a	89	5	12.62	-----	-----	1	2.56
Isabella.....	49	14	28.57	5	10.20	-----	-----
Jackson.....	865	43	11.78	16	4.88	18	4.98
Kalamazoo.....	889	44	12.98	16	4.73	13	3.82
Kalkaska.....	21	1	4.76	2	9.52	1	4.76
Kent.....	567	53	10.23	23	4.06	80	5.29
Keweenaw..... ^a	89	3	7.69	-----	-----	1	2.56
Lake..... ^a	9	-----	-----	-----	-----	2	22.22
Lapeer.....	219	26	11.87	21	9.59	8	3.65
Leelanaw.....	73	6	8.33	1	1.36	7	9.72
Lenawee.....	363	36	9.94	15	4.14	21	5.80
Livingston.....	186	14	10.22	4	2.94	6	4.41
Mackinac..... ^b	-----	-----	-----	-----	-----	-----	-----
Macomb.....	187	26	18.90	6	3.21	1	.58
Manistee..... ^a	107	6	5.61	4	3.74	7	6.54
Manitou..... ^a	8	-----	-----	-----	-----	-----	-----
Marquette..... ^a	298	25	8.53	4	1.37	13	4.44
Mason..... ^a	55	2	3.64	8	5.45	7	12.74
Mecosta..... ^a	57	3	5.26	2	3.51	2	3.51
Menominee.....	18	-----	-----	2	11.11	-----	-----
Midland..... ^a	67	4	5.97	1	1.49	13	19.40
Missaukee..... ^a	8	1	12.50	-----	-----	1	12.50
Monroe..... ^a	191	27	14.14	7	3.66	8	1.57
Montcalm..... ^a	217	19	8.76	16	7.87	33	15.21

^a Except townships not represented by Returns of Deaths in 1872. See pages 217-218.

^b No returns of deaths to this Department.

TABLE XXV.—CONTINUED.

COUNTIES.	All Causes.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.	
		Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
Muskegon..... ^a	169	9	5.33	6	3.55	11	6.51
Newaygo..... ^a	59	7	11.86	2	3.39	5	8.47
Oakland.....	300	37	12.33	14	4.67	9	3.00
Oceana.....	127	18	14.17	4	3.15	2	1.57
Ontonagon.....	15	3	20.00	.....	.....	.....	.....
Osceola..... ^a	28	2	7.14	2	7.14	4	14.29
Ottawa.....	406	32	7.88	26	6.40	24	5.91
Presque Isle..... ^a	11	2	18.18	.....	.....	.....	.....
Saginaw..... ^a	553	55	9.95	39	7.05	22	3.98
Sanilac.....	144	17	11.81	8	5.56	7	4.86
Schoolcraft.....	7	1	14.29	1	14.29	.....	.....
Shiawassee.....	167	24	14.37	10	5.99	10	5.99
St. Clair.....	443	43	10.36	14	3.17	8	1.81
St. Joseph.....	211	23	15.64	18	6.16	12	5.69
Tuscola..... ^a	137	15	10.95	5	3.65	15	10.95
Van Buren.....	323	33	11.59	10	3.05	14	4.27
Washtenaw..... ^a	366	55	15.03	18	4.92	21	5.74
Wayne.....	1,761	139	10.73	55	3.12	35	1.98
Wexford..... ^a	21	.....	.....	4	1.90	1	4.76

^a Except townships not represented by Returns of Deaths in 1872. See pages 217-219.

TABLE XXVI.—*Exhibiting for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths at All Ages, from Old Age, of all Aged 70 and Over, and of all Aged under 5; also the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of all Aged Under 5, to Deaths at All Ages, for the year 1872.*

STATE AND GEOGRAPHICAL DIVISIONS. ^a	SEX.	ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
			Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.
State.....	Total.....	18,371	400	2.99	1,094	8.18	5,582	41.52
	Males.....	7,182	187	2.60	629	8.73	3,048	42.44
	Females....	6,162	213	3.46	465	7.55	2,438	40.80
	Unknown..	27	—	—	—	—	21	77.77
Upper Peninsula.....	Total.....	583	6	1.18	7	1.22	308	57.89
	Males.....	314	2	.64	4	1.25	169	58.82
	Females....	216	4	1.85	3	1.39	138	68.99
	Unknown..	2	—	—	—	—	1	50.00
Northwestern.....	Total.....	860	2	.56	16	4.44	212	59.59
	Males.....	184	1	.54	11	5.95	105	57.07
	Females....	176	1	.57	5	2.84	107	60.80
Northern.....	Total.....	144	3	2.08	7	4.56	83	57.64
	Males.....	83	1	1.20	5	6.02	46	55.42
	Females....	61	2	3.28	2	3.28	37	60.66
Northeastern.....	Total.....	86	—	—	2	2.33	48	50.00
	Males.....	43	—	—	1	2.33	24	55.81
	Females....	43	—	—	1	2.33	19	44.18
Western.....	Total.....	1,420	84	2.89	95	6.69	650	46.41
	Males.....	766	16	2.09	60	7.83	368	47.39
	Females....	651	18	2.76	35	5.38	295	45.82
	Unknown..	8	—	—	—	—	1	88.88

^a For counties included in each Division, see Exhibit J, page 261.

^b For counties and townships from which no returns of deaths in 1872 were received, see Exhibit H, pages 217 to 218; for those in which no deaths occurred, see Exhibit I, page 219.

TABLE XXVI.—CONTINUED.

GEOGRAPHICAL DIVISIONS. *	SEX.	ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UN- DER 5.	
			Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.
Northern Central.....	Total.....	181	4	2.21	8	4.42	73	40.83
	Males.....	94	4	4.26	7	7.45	39	41.49
	Females.....	86	.....	.....	1	1.16	34	39.53
	Unknown..	1	.....	.....	.....	.....	.....	.....
Central.....	Total.....	2,297	81	3.58	224	9.75	579	38.23
	Males.....	1,198	31	2.51	122	10.23	439	43.10
	Females.....	1,096	50	4.56	102	9.81	338	34.93
	Unknown..	8	.....	.....	.....	.....	7	87.50
Bay and Eastern.....	Total.....	1,971	46	2.33	92	4.61	925	46.93
	Males.....	1,076	28	2.14	49	4.55	527	49.98
	Females.....	894	28	2.57	43	4.81	397	44.41
	Unknown..	1	.....	.....	.....	.....	1	100.00
Southwestern.....	Total.....	1,309	44	3.36	130	9.98	478	36.53
	Males.....	711	28	3.23	77	10.83	267	37.55
	Females.....	594	21	3.52	53	8.92	208	35.02
	Unknown..	4	.....	.....	.....	.....	3	75.00
Southern Central.....	Total.....	2,632	84	3.19	325	12.35	364	32.96
	Males.....	1,377	42	3.05	197	14.31	471	34.20
	Females.....	1,253	42	3.35	128	10.22	391	31.21
	Unknown..	2	.....	.....	.....	.....	2	100.00
Southeastern.....	Total.....	2,439	96	3.94	183	7.71	10,28	42.11
	Males.....	1,341	44	3.28	96	7.16	546	40.87
	Females.....	1,092	52	4.76	93	8.42	474	43.41
	Unknown..	6	.....	.....	.....	.....	6	100.00

* For counties included in each Division, see Exhibit J, page 261.

TABLE XXVII.—*Exhibiting, for the State and Counties of Michigan, the Average Age of Inhabitants of each Sex, in 1870, the Number of Deaths at All Ages, from Old Age, of all Aged 70 and Over, and of all Aged Under 5, in 1872; also the Per Cent. of Deaths from Old Age, of all Aged 70 and Over, and of all Aged Under 5, to Deaths at All Ages.*

STATE AND COUNTIES.	Average Age of Inhabitants June 1, 1870.		ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
	Males.	Females.		Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.
State.....*	24.91	28.88	18,871	400	2.24	1,094	8.18	5,552	41.52
Alcona	23.26	20.65	17	---	---	---	---	10	58.82
Allegan	24.11	28.26	888	12	3.13	84	8.88	105	27.42
Alpena.....*	23.46	21.04	19	---	---	---	---	10	52.63
Antrim	23.29	21.84	83	2	6.06	8	9.09	12	86.86
Barry.....	24.74	23.56	298	9	4.48	25	12.82	74	86.45
Bay.....	23.42	21.12	868	4	1.10	11	3.08	198	53.17
Benzie.....	25.84	22.28	75	1	1.33	8	4.00	41	54.67
Berrien	24.71	28.26	442	20	4.58	88	8.60	208	47.06
Branch	26.67	25.58	801	7	2.88	86	11.96	108	34.22
Calhoun	26.42	25.48	857	12	3.86	46	12.89	111	31.09
Cass.....*	24.93	24.06	186	3	1.92	25	16.08	50	32.05
Charlevoix.....*	23.25	21.20	83	---	---	1	3.08	19	87.58
Cheboygan.....	22.87	20.62	19	---	---	---	---	18	68.42
Chippewa.....	23.85	23.17	82	2	6.25	2	6.25	14	43.75
Clare.....*	27.50	21.96	8	---	---	---	---	6	75.00
Clinton	24.59	28.48	233	6	2.37	19	7.51	120	47.48
Eaton	25.43	24.05	263	10	3.80	32	12.17	95	36.12
Emmet.....	23.33	24.00	88	1	2.63	3	7.89	23	57.89
Genesee	25.72	24.55	277	18	6.50	38	18.72	76	27.44
Grand Traverse.....	23.54	21.98	74	---	---	3	4.05	39	52.70
Gratiot.....	23.35	21.92	171	4	2.84	8	4.63	81	47.37
Hillsdale	26.51	25.29	881	7	2.11	48	12.99	101	30.51
Houghton.....*	21.64	19.84	126	1	.78	2	1.56	88	68.75

* Except counties and townships not represented by returns of deaths; see Exhibit H, pages 217 to 218. The statement of average age is of all inhabitants of the State.

TABLE XXVII.—CONTINUED.

COUNTIES.	Average Age of Inhabitants June 1, 1870.		ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
	Males.	Females.		Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.
Huron	22.49	20.21	118	1	.88	2	1.77	66	53.41
Ingham	25.09	24.38	306	15	4.90	32	10.46	127	41.50
Ionis	25.16	24.07	304	5	1.68	25	9.21	118	38.82
Iosco	28.99	21.09	39	—	—	2	5.13	17	43.59
Isabella	23.89	20.49	49	—	—	1	2.04	12	24.49
Jackson	26.71	24.99	365	18	4.93	36	9.56	135	36.99
Kalamazoo	25.94	25.10	339	11	3.24	44	12.96	104	30.65
Kalkaska	24.38	18.83	21	—	—	—	—	17	80.95
Kent	25.32	24.00	567	19	3.35	58	10.23	233	41.09
Keweenaw	21.98	19.03	39	1	2.56	—	—	12	30.77
Lake	24.01	20.63	9	—	—	—	—	4	44.40
Lapeer	24.57	23.10	219	10	4.57	14	6.39	83	37.90
Leelanaw	23.40	21.64	72	—	—	3	4.17	41	56.94
Lenawee	27.03	26.15	362	12	3.32	47	12.96	139	38.40
Livingston	26.01	24.93	136	4	2.94	12	8.82	37	27.21
Macomb	25.81	24.33	137	5	2.67	16	8.56	77	41.12
Manistee	23.55	20.57	107	1	.93	4	3.74	72	67.29
Manitou	22.49	20.13	3	—	—	—	—	1	33.33
Marquette	23.04	20.00	293	2	.63	2	.63	168	57.30
Mason	24.27	21.27	55	1	1.82	—	—	32	58.18
Mecosta	23.56	20.97	57	3	5.26	4	7.02	26	45.61
Menominee	23.79	19.42	13	—	—	—	—	14	77.78
Midland	24.14	21.58	67	1	1.49	3	4.48	29	43.30
Missaukee	26.05	21.70	8	—	—	1	12.50	5	62.50
Monroe	24.12	23.28	191	6	3.14	16	8.38	72	37.70
Montcalm	23.64	22.45	217	5	2.30	17	7.83	90	41.47
Muskegon	24.09	22.00	169	1	.59	1	.59	90	53.25
Newaygo	23.51	21.50	59	—	—	3	5.02	29	49.15
Oakland	26.57	25.81	300	21	7.00	47	15.67	54	28.00

* Except townships not represented by returns of deaths: see Exhibit H, pages 217 to 219. The statement of average age is of all inhabitants of the State.

TABLE XXVII.—CONTINUED.

COUNTIES.	Average Age of Inhabitants June 1, 1870.		ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
	Males.	Females.		Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.	Number of Deaths.	Per Cent. to Deaths at All Ages.
Oceana.....	24.06	22.57	127	1	.78	4	8.15	53	45.67
Ontonagon.....	21.07	19.25	15	----	-----	1	6.67	9	60.00
Oscola.....	22.27	20.52	23	----	-----	1	8.57	18	64.29
Ottawa.....	22.95	22.19	406	12	2.96	28	6.90	195	48.08
Presque Isle..... *	25.18	19.88	11	----	-----	-----	-----	6	54.55
Saginaw..... *	23.81	21.62	558	9	1.63	21	3.90	250	45.21
Sanilac.....	22.30	20.62	144	4	2.77	8	5.56	68	47.22
Schoolcraft.....	24.07	19.49	7	----	-----	-----	-----	8	42.86
Shiawassee.....	24.69	23.67	167	5	2.99	18	7.78	61	36.52
St. Clair.....	23.61	22.26	442	16	3.62	30	6.79	205	46.88
St. Joseph.....	25.35	24.75	211	8	3.79	29	13.74	55	26.07
Tuscola..... *	23.53	21.99	187	2	1.06	6	4.38	60	48.30
Van Buren.....	25.24	23.90	323	9	2.74	33	10.06	115	35.06
Washtenaw..... *	26.86	25.82	866	9	2.46	44	12.02	116	31.69
Wayne.....	24.87	23.54	1,761	64	3.63	109	6.19	795	45.14
Wexford..... *	24.66	22.07	21	----	-----	2	9.52	13	61.90

* Except townships not represented by returns of deaths; see Exhibit H, pages 217 to 219. The statement of average age is of all inhabitants of the State.

TABLE XXVIII.—*Exhibiting, for the Year and Months, by Sex, the Conjugal Condition, Occupation, and Age in Periods of Years, of all returned as having died from Consumption in Michigan during the Year ending December 31, 1872.*

MONTHS, 1872.												SEX AND OCCUPATION.	CONJUGAL CONDI- TION.	YEAR 1872.	AGES IN PERIODS.																	
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.				Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
69	80	93	151	111	123	103	131	168	139	136	170	8	1467	Total	144	16	33	118	196	151	129	112	90	97	89	81	73	58	40	29	10	83
38	45	52	79	62	68	50	63	82	63	77	79	1	762	Married...	---	---	---	8	74	84	97	90	66	76	71	48	56	41	23	15	8	16
24	24	31	59	40	44	46	55	61	63	48	71	1	567	Single....	144	16	29	107	115	60	29	13	5	9	10	3	2	9	5	3	1	7
3	3	5	6	9	8	6	10	12	9	7	12	1	96	Widowed	---	---	---	---	2	3	1	4	5	9	6	13	13	7	12	11	6	4
4	4	3	4	1	3	1	3	3	4	4	8	---	42	Unknown	---	---	4	3	5	4	2	5	4	3	2	1	1	---	---	---	5	
31	49	42	64	55	69	69	69	86	67	67	73	8	747	Total	82	9	26	73	123	81	70	59	39	43	35	19	24	18	13	3	13	
20	33	22	36	25	33	30	34	42	29	39	34	1	386	Married...	---	---	---	8	62	53	57	51	33	30	25	12	15	14	8	2	---	8
9	11	14	21	26	26	36	38	35	32	21	33	1	293	Single....	82	9	23	69	59	18	12	4	3	5	4	---	1	1	---	2	---	9
1	5	6	6	3	4	3	7	9	4	4	5	1	58	Widowed	---	---	---	---	1	3	1	3	4	8	6	7	5	2	4	9	3	2
1	---	---	1	1	1	---	---	---	---	2	3	1	10	Unknown	---	---	8	1	1	2	---	1	---	---	---	---	---	---	1	---	---	1

35	81	51	57	53	54	34	62	72	72	69	97	720	Total	....	MALES.	62	7	7	40	73	70	59	53	41	54	54	42	48	40	27	16	7	90
18	15	80	43	84	80	29	40	34	83	45	376	Married	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	13	17	88	14	18	10	27	26	81	27	88	274	Single		63	7	6	38	56	42	17	9	8	4	6	8	1	8	5	1	5	1	5
2	88	Widowed
3	3	4	3	...	3	1	3	3	2	1	7	32	Unknown	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	37	85	57	42	51	44	47	55	43	56	56	533	Total	....	Occupations	...	14	23	70	109	66	52	43	26	35	27	17	15	13	11	1	15	
15	21	16	30	21	23	16	26	28	20	31	26	273	Married	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	11	12	20	17	19	25	17	20	19	18	19	207	Single
2	4	5	5	3	2	2	3	5	2	8	5	42	Widowed
2	1	2	2	1	2	1	1	2	2	4	6	26	Unknown	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	31	25	46	34	43	40	33	46	37	49	44	454	Total	....	Occupations	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	19	14	29	17	27	15	24	27	19	31	24	258	Married	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	8	6	12	13	14	23	11	14	16	13	14	150	Single
1	4	5	5	3	1	3	3	5	1	2	5	38	Widowed
1	...	...	...	1	1	...	...	...	...	1	3	8	Unknown	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	6	10	11	8	8	4	9	9	6	7	12	99	Total	....	Occupations	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	3	3	1	4	1	1	2	1	1	...	2	20	Married
4	3	6	8	4	5	2	6	6	8	5	5	57	Single
1	1	4	Widowed
1	1	...	...	...	...	...	...	...	...	1	1	...	18	Unknown	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Males.

Occupations

Unknown,

Total.

Occupations

Unknown,

Females.

Occupations

Unknown,

Males.

TABLE XXVIII.—CONTINUED.—Deaths from Consumption, 1872.

MONTHS, 1872.												SEX AND OCCUPATION.		AGES IN PERIODS.														
CONJUGAL CONDITION.												SEX AND OCCUPATION.	YEAR 1872.	Under 5.														
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.			Unknown.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.
40 43 58	94 60 72 59	84 108 96 80	114 2	914	Total	All Specified Occupations,						144	2 10 48 87 53 77	70 74 62 62 44 55 48 27 19	9 17	Unknown.												
23 27 86	49 41 40 84	37 54 43 46	53 1	484	Married..	Total.						144	2 9 46 53 40 17	10 4 7 6 2 1 7 4 2 1 8	8 9													
14 13 19	39 23 25 21	38 41 44 30	52 1	860	Single....							144	2 9 46 53 40 17	10 4 7 6 2 1 7 4 2 1 8	8 9													
1 1 1	4 5 6 4	7 7 7 4	7 ..	51	Widowed							144	2 9 46 53 40 17	10 4 7 6 2 1 7 4 2 1 8	8 9													
2 2 2	2 ..	1 ..	2 ..	16	Unknown							144	2 9 46 53 40 17	10 4 7 6 2 1 7 4 2 1 8	8 9													
11 18 17	18 24 26 29	31 40 30 18	29 2	293	Total	Specified Occupations,						82	8 23 30 28 27	20 15 13 14 5 9 7 2 4 3 8	2													
8 14 8	7 11 11 15	10 15 10 5	10 1	125	Married..	Females. (Class XII.)						82	7 21 12 7 6 1 1 3 2	1 1 3 2	1													
8 8 8	9 18 12 18	17 21 16 8	19 1	143	Single....							82	7 21 12 7 6 1 1 3 2	1 1 3 2	1													
.. 1 1	1 ..	3 1 4 3	2 ..	20	Widowed							82	7 21 12 7 6 1 1 3 2	1 1 3 2	1													
.....	1 ..	.....	.....	2	Unknown							82	7 21 12 7 6 1 1 3 2	1 1 3 2	1												
29 25 41	76 45 46 30	53 63 66 62	65 ..	621	Total	Specified Occupations,						62	2 9 25 37 57	50 39 49 43 39 46 36 25 14 6 14	8													
15 13 28	42 30 29 19	27 39 33 35	43 ..	356	Married..	Males. (Classes I.-XI.)						62	2 9 25 37 57	50 39 49 43 39 46 36 25 14 6 14	8													
11 10 11	30 10 13 8	21 20 23 22	33 ..	217	Single....							62	2 9 25 37 57	50 39 49 43 39 46 36 25 14 6 14	8													
1 ..	8 5 8 3	8 8 4 2	7 ..	31	Widowed							62	2 9 25 37 57	50 39 49 43 39 46 36 25 14 6 14	8													
2 2 2	1 ..	2 1 1	2 ..	14	Unknown							62	2 9 25 37 57	50 39 49 43 39 46 36 25 14 6 14	8													

TABLE XXVIII.—CONTINUED.—Deaths from Consumption, 1872.

MONTHS, 1872.												AGES IN PERIODS.																			
CONFUGAL CONDITON.												SEX AND OCCUPATION.																			
Year 1872.												Class II.—(Continued.)																			
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
1	1	2	1	4	..	5	8	1	4	4	..	..	25 Total....	..	..	..	..	2	..	8	8	1	5	8	8	2	1	1	..	1	
1	1	1	1	8	..	4	1	1	4	8	..	..	19 Married...	..	..	..	..	..	..	8	8	1	5	2	2	2	..	..	..	..	..
..	..	..	..	..	..	1	2	..	..	1	..	..	4 Single....	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..	1 Widowed	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	..	..	..	..	..	..	..	1 Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..	1 Married...	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	1	1	1	..	..	..	1	..	..	1	..	6 Total....	..	..	..	1	1	1	1	1	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	1 Married...	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
1	1	1	..	..	..	..	..	..	..	1	..	..	8 Single....	..	..	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..	1 Widowed	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	1	1	..	..	..	..	..	..	..	..	..	6 Total....	..	..	..	..	1	1	1	1	..	..	..	..	1	..	..	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..	1 Married...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	8 Single....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1 Widowed	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	1	1	..	..	..	..	..	..	2	1	..	6 Total....	..	..	..	..	1	1	1	1	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1 Married...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	1	1	..	..	..	..	..	..	..	1	..	8 Single....	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	..	..	..	..	..	..	..	2 Widowed	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XXVIII.—CONTINUED.—Deaths from Consumption, 1872.

MONTHS, 1872.												SEX AND OCCUPATION.	CONJUGAL CONDI- TION.	AGES IN PERIODS.																			
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.			Unknown.	Year 1872.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
2	1	4	8	3	2	2	4	6	6	1	1	Unknown.	88	...	...	1	1	5	6	4	2	2	2	3	3	2	3	2	2	1	...	...	...
...	1	...	...	Class IX.	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Book-keepers.	1 Married..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Butter and Egg Dealers.	1 Married..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	1	...	1	1	1	2	1	1	...	...	...	...	8 Total....	...	...	1	1	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Clerks.	8 Married...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	1	1	1	...	2	1	...	...	...	...	...	...	6 Single...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	1	...	...	...	...	...	...	...	...	...	Druggists.	1 Widowed	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Dry Goods Clerks.	1 Single...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	1	...	...	...	...	...	...	...	...	...	Grocers.	2 Total....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Grocers.	1 Single...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Hotel Clerks.	1 Widowed	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Hotel-keepers.	1 Single...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Hotel-keepers.	1 Married..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Insurance Agents.	1 Single...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	1	...	...	...	...	...	...	...	...	...	Justices.	1 Married..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

1	2	1	3	2	6	2	1	2	28 Total.....	1	1	4	4	2	1	2	1	8	1	1	2
1	2	1	3	1	4	1	2	15 Married..			2	8	2	1	2	1	2	1	2	1	1
			1		1		1	8 Single....		1	1										
			2		1	1		4 Widowed			1							1			1
								1 Unknown					1								
				1			2	8 Single....	Farmers.												
								1 Widowed	Farmers' Daughters.		1	1									
								9 Total.....	Farmers' Widows.												
2			1	1	2	2	1	8 Married..				2	8	1	1	1	1				1
2			1	1	2	1	1	1 Widowed	Farmers' Wives.			2	8	1	1		1				
								1 Widowed													
								1 Widowed	Householders.												
								1 Single....	Household Laborers.												
								68 Total.....		1											
2	5	5	5	9	6	7	8	4			5	6	5	8	10	6	6	4	4	8	1
2	7	4	5	7	4	4	6	2	58 Married..			2	6	4	7	9	5	4	8	4	1
				2	1				8 Single....			8	1	1		1					
								2	8 Widowed												
1							2	1													
2	1	2	2	2	2	3	1	2	20 Total.....												
2	1	1	2	1	2	1	2	1	16 Married..			4	1	2	2	1	4	2	1	1	1
									4 Widowed			4	1	2	2	1	2	2	1	1	

* Includes all under five years of age.

TABLE XXVIII.—CONTINUED.—Deaths from Consumption, 1872.

MONTHS, 1872.												SEX AND OCCUPATION.		AGES IN PERIODS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Year 1872.	CONJUGAL CONDI- TION.	Class XII.—(Continued.)												Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																												
1	1	1	1	1	2	2	...	5	2	1	17 Total....	{	House-workers.												1	...	1	8	...	2	8	4	1	8																																																																																																																																																																																																																																																																																																																																																																																																																																									
1	1	1	2	2	...	2	1	1	11 Married..	{	House-workers.												2	2	8	1	8																																																																																																																																																																																																																																																																																																																																																																																																																																								
...	...	1	1	8	1	6 Single ...	{	House-workers.												1	...	1	8	1	...	1																																																																																																																																																																																																																																																																																																																																																																																																																																								
...	1	1	2 Single ...	{	Laborers.																																																																																																																																																																																																																																																																																																																																																																																																																																																			
...	...	1	1 Married...	{	Mat-makers.																																																																																																																																																																																																																																																																																																																																																																																																																																																		
...	1	1 Married...	{	Merchants.												1																																																																																																																																																																																																																																																																																																																																																																																																																																							
...	2	...	1	8 Total....	{	Milliners.												1	1	1																																																																																																																																																																																																																																																																																																																																																																																																																																						
...	1	1	1	2 Married..	{	Milliners.												1	1	1																																																																																																																																																																																																																																																																																																																																																																																																																																						
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...	1	1 Single ...	{	Music Teachers.												1																																																																																																																																																																																																																																																																																																																																																																																																																																						
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a Includes all under five years of age.

In Table XXVIII, wherever the conjugal condition was not stated, it was compiled as single for all males aged fifteen years or under, and for all females aged twelve years or under; and all cases under five years of age were compiled as "unemployed" when the occupation was not stated.

EXHIBIT Q.—*The Average Age of the Inhabitants of Michigan of Both Sexes, of Each Sex, and the Difference between the Sexes, for all Living June 1, 1870, and all returned as having Died during the year ending June 1, 1870, as Compiled from the U. S. Census of that date; for all returned as having Died from Consumption during the years 1870 and 1872; for all returned as having Died from All Causes during the years 1870, 1871, and 1872, as shown by the Registration Returns; for all Living Aged 20 and Over, as per Census June 1, 1870; for all Aged 20 and over whose Ages and Occupations were stated in the Registration Returns of Deaths for the years 1870, 1871, and 1872; for all who died Aged 20 years and over as shown by the Registration Returns of Deaths for 1872; and the Average Age at Death of persons Aged 20 years and over, as indicated in the Life Table on page 197 of this Report.*

LINE NUMBER.	PERSONS.	AVERAGE AGE IN YEARS AND 100THS OF A YEAR.				YEAR ENDING:
		Total.	Males.	Females.	Excess of Males.	
1	Deaths, as per Census.....	24.79	25.17	24.39	.79	June 1, 1870.
2	Living, as per Census.....	24.83	24.91	23.63	1.28	June 1, 1870.
3	Deaths as shown by Registration Returns	23.50	24.05	22.89	1.16	Dec. 31, 1870.
4	Deaths from Consumption, by Registration Returns.....	34.95	36.89	33.14	3.75	Dec. 31, 1870.
5	All Living aged 20 y'rs and over, per Cen.	33.23	33.61	37.80	.81	June 1, 1870.
6	All aged 20 years and over whose occupations were stated in Registration Returns of Deaths.....	51.01	52.45	45.96	6.49	Dec. 31, 1870.
7	Deaths as shown by Registration Returns	25.63	26.78	24.50	2.28	Dec. 31, 1871.
8	All aged 20 years and over, whose occupations were stated in Registration Returns of Deaths.....	51.44	52.79	46.45	6.34	Dec. 31, 1871.
9	Deaths as shown by Registration Returns	24.17	25.09	23.17	1.92	Dec. 31, 1872.
10	Deaths from Consumption, by Registration Returns.....	35.05	39.10	31.19	7.91	Dec. 31, 1872.
11	All aged 20 years and over whose occupations were stated in Registration Returns of Deaths.....	50.73	51.90	47.08	4.82	Dec. 31, 1872.
12	All who died aged 20 years and over, as shown by Registration Returns.....	49.72	51.67	47.43	4.25	Dec. 31, 1872.
13	"Average Years of Life" after the age of 20 years, as shown by Table VII., page 197, plus 20 years,—indicating for those aged 20 years and over, the "Average Age at Death," according to that Life Table.....	.....	63.72	62.03	1.70	Dec. 31, 1870.

The following is the rule used to obtain the average age : Multiply the number at each age by the age, add the products, and then add one-half month for each person under one year of age, and one-half year for each person over one year of age, and divide the sum by the whole number of inhabitants, or persons dead, as the case may be, less the number at unknown ages.

Certain lines in Exhibit Q are so frequently misinterpreted that it seems best to point out what the compiler believes is the reason why the "Average Age" of all persons living in Michigan, as shown by this Exhibit, is only 24.91 years for males, and 23.68 years for females, while the "Average Years of Life," as shown by Table VII., page 196 of this Report, is 43.79 years for males, and 44.24 years for females. The last mentioned statements would be the average ages of males and females in such a theoretical "fixed population" as would exist in this State if the death-rate is as shown in Table VII., and if the births just equaled the deaths and thus maintained said "fixed population." But the births in Michigan greatly exceed the deaths, and on account of this, and of other causes, the actual Average Age of the inhabitants was in 1870 as stated in this Exhibit. We may compare these statements with those in Table VII., as follows:

	MALES.	FEMALES.
Average Years of Life in Michigan.....	43.79	44.24
Average Age of Inhabitants, in 1870.....	24.91	23.68
Difference, in Years	18.88	20.56

From which it appears that the inhabitants of Michigan are, on an average, quite young, compared with such a population as the death-rate would allow. This fact should be borne in mind in considering the death-rate when computed simply by per cent. of deaths to total population, as is the usual method; because the death-rate thus computed depends much upon the age of the inhabitants, being larger among the very old and the very young.

Exhibit Q contains statements which permit of many inter-

esting comparisons, a few of which may be mentioned for the purpose of introducing some of the subjects. It will be seen that the lines giving ages of all persons Living and of those who died in the year 1870 do not show much variation in the ages. Lines numbered 5 and 12—concerning persons aged 20 years and over, giving the ages of those living in 1870, and of those who died in 1872—can profitably be compared; as also can lines numbered 11 and 12, this comparison indicating something as to whether the occupation is more completely returned at some ages than at others, and thus indicating the value of Table XXIX. A comparison of lines numbered 11 and 13 shows that the average ages of those aged 20 years and over, whose occupation was stated, does not equal the average age at death of those at such ages, according to the Life Table in his Report. This might be owing to one of three facts: 1, the Life Table may not correctly express the facts, as it is not based on absolute knowledge, but upon the best data available; 2, the inhabitants of the State aged 20 years and over may not average as old as the Life Table would lead us to believe persons at such ages would average in a “fixed population” harmonizing with the death-rate in this State; 3, the deaths reported for the year 1872 may have been exceptional. A comparison of lines numbered 12 and 13 can be made, bearing in mind the three above-mentioned explanations.

Table XXIX. exhibits the occupation of 3,731 decedents in 1872. This number is greater than has been tabulated in former years. The evidence as to the average age of decedents does not vary much from that in former years. Both these facts are encouraging as showing improvements in the returns, and uniformity of results. A comparison of lines 11 and 12 in Exhibit Q furnishes an indication of the representative character of this table. The average age of all specified in the table is slightly less than in former years; and the classes, in which the average age was slightly less, are as follows: II.—Active Mechanics Abroad; and V.—Laborers—No Special Trades.

TABLE XXIX.—*Exhibiting, by Classified Occupations, the Number, with the Aggregate and Average Ages, of all whose Occupations and Ages were returned, of those Aged 20 Years and Over.—One-half Year added to Age of each Person, in place of Months and Days Excluded.*

CLASS.	OCCUPATIONS.	No. of Persons.	AGE,—IN YEARS.	
			Aggregate.	Average.
	ALL SPECIFIED OCCUPATIONS.....	8,731	199,268.50	50.78
I.	CULTIVATORS OF THE EARTH	1,469	82,227.50	55.98
II.	ACTIVE MECHANICS ABROAD.....	157	7,785.50	49.59
III.	ACTIVE MECHANICS IN SHOPS.....	220	11,074.00	50.84
IV.	INACTIVE MECHANICS IN SHOPS.....	87	4,447.50	51.13
V.	LABORERS—NO SPECIAL TRADES.....	484	18,602.00	42.86
VI.	AGENTS, LABORERS ABROAD, ETC.....	189	6,489.50	48.58
VII.	SEAFARING MEN.....	51	2,177.50	42.70
VIII.	SOLDIERS.....	1	72.50	72.50
IX.	BUSINESS MEN.....	147	6,882.50	46.88
X.	PROFESSIONAL MEN.....	66	3,494.00	52.94
XI.	UNEMPLOYED.....	58	8,875.50	68.69
XII.	FEMALES	907	42,705.50	47.06
I.	CULTIVATORS OF THE EARTH	1,469	82,227.50	55.98
	Farmers	1,450	81,484.50	56.00
	Farm Laborers.....	1	20.50	20.50
	Farmers' Sons	1	25.50	25.50
	Gardeners	8	480.00	60.00
	Nurserymen	2	81.00	40.50
	Retired Farmers	2	186.00	68.00
II.	ACTIVE MECHANICS ABROAD.....	157	7,785.50	49.59
	Carpenters	92	4,693.00	51.01
	Carpenters and Joiners.....	5	258.50	50.70
	Hewers	1	29.50	29.50
	Joiners	14	599.00	42.79
	Masons	18	1,076.00	57.56
	Painters	17	626.50	34.82

TABLE XXIX.—CONTINUED.—*Occupations of Decedents.*

CLASS.	OCCUPATIONS.	No. of Persons.	AGE,—IN YEARS.	
			Aggregate.	Average.
II.	ACTIVE MECHANICS ABROAD—(Continued).			
	Ship-carpenters.....	5	240.50	48.10
	Stone-masons.....	5	307.50	61.50
III.	ACTIVE MECHANICS IN SHOPS.....	220	11,074.00	50.34
	Bakers.....	7	322.50	46.07
	Basket-makers.....	1	81.50	81.50
	Blacksmiths.....	42	2,239.00	54.50
	Boiler-makers.....	1	22.50	22.50
	Book-makers.....	1	29.50	29.50
	Brewers.....	8	116.50	33.98
	Cabinet-makers.....	12	650.00	54.17
	Carriage-makers.....	2	148.00	74.00
	Carvers.....	1	65.50	65.50
	Chair-makers.....	1	72.50	72.50
	Cheese-makers.....	1	24.50	24.50
	Cloth-fullers.....	1	71.50	71.50
	Cooks.....	1	24.50	24.50
	Coopers.....	24	1,370.00	57.08
	Dyers.....	1	47.50	47.50
	Engineers.....	12	502.00	41.83
	Finishers of Furniture.....	1	27.50	27.50
	Foundrymen.....	1	41.50	41.50
	Gilders.....	1	24.50	24.50
	Gunsmiths.....	7	381.50	54.50
	Hoop-makers.....	1	26.50	26.50
	Machinists.....	5	206.50	41.30
	Mechanics.....	23	1,333.00	47.61
	Millers.....	8	404.00	50.50
	Millwrights.....	6	309.00	51.50
	Moulders.....	6	266.00	44.33
	Mounters.....	1	66.50	66.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents.*

CLASS.	OCCUPATIONS.	No. of Persons.	AGE,—IN YEARS.	
			Aggregate.	Average.
III.	ACTIVE MECHANICS IN SHOPS—(Continued).			
	Oar-makers	1	56.50	56.50
	Plasterers.....	1	54.50	54.50
	Polishers	1	40.50	40.50
	Puddlers.....	1	36.50	36.50
	Pump-makers.....	1	40.50	40.50
	Sawyers	7	281.50	40.21
	Shingle-makers.....	1	26.50	26.50
	Stone-cutters	9	416.50	46.28
	Tanners.....	1	53.50	53.50
	Tinsmiths	2	102.00	51.00
	Turners	1	24.50	24.50
	Wagon-makers.....	11	527.50	47.95
	Weavers.....	5	347.50	69.50
	Wheelwrights.....	2	142.00	71.00
IV.	INACTIVE MECHANICS IN SHOPS.....	67	4,447.50	51.12
	Barbers.....	6	217.00	36.17
	Book-binders	2	86.00	43.00
	Cigar makers	1	29.50	29.50
	Goldsmiths.....	1	37.50	37.50
	Harness makers	6	279.00	46.50
	Jewelers.....	4	225.00	56.25
	Printers.....	6	251.00	41.83
	Saddlers	2	144.00	72.00
	Shoemakers	35	1,908.50	54.89
	Tailors.....	13	1,019.00	56.61
	Telegraph Operators.....	2	44.00	22.00
	Tobacconists	4	212.00	53.00
V.	LABORERS—NO SPECIAL TRADES.....	484	18,602.00	42.86
	Ditchers.....	2	118.00	59.00

TABLE XXIX.—CONTINUED.—*Occupations of Decedents.*

CLASS.	OCCUPATIONS.	No. of Persons.	Age,—in Years.	
			Aggregate.	Average.
V.	LABORERS—No SPECIAL TRADES—(Continued.)			
	Firemen.....	1	85.50	85.50
	General Work.....	1	41.50	41.50
	Greasers.....	1	89.50	29.50
	House keepers.....	1	41.50	41.50
	Janitors.....	1	50.50	50.50
	Laborers.....	898	16,625.00	43.86
	Mill Hands.....	1	22.50	22.50
	"Mill Men".....	1	24.50	24.50
	Miners.....	31	1,182.50	33.15
	Porters.....	2	63.00	31.50
	Raftsmen.....	1	24.50	24.50
	Walters.....	1	28.50	28.50
	Watchmen.....	1	54.50	54.50
	Well-diggers.....	1	55.50	55.50
VI.	AGENTS, LABORERS ABROAD, ETC.....	189	6,439.50	46.33
	Agents.....	6	263.00	44.67
	Bar-tenders.....	1	48.50	48.50
	Brakemen.....	6	191.00	31.83
	Butchers.....	18	516.50	28.72
	Commercial.....	1	53.50	53.50
	Commercial Agents.....	1	55.50	55.50
	Conductors.....	1	30.50	30.50
	Draymen.....	7	422.50	60.36
	Drovers.....	2	51.00	40.50
	Farriers.....	2	107.00	58.50
	Fiddlers.....	1	20.50	20.50
	Foremen over Laborers.....	1	35.50	35.50
	Hack Drivers.....	24	1,370.00	57.08
	Hackmen.....	2	71.00	35.50
	House-movers.....	1	51.50	51.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents.*

CLASS.	OCCUPATIONS.	No. of Persons.	AGE,—IN YEARS.	
			Aggregate.	Average.
VI.	AGENTS, LABORERS ABROAD, ETC.—(Con.)			
	Hunters.....	4	158.00	39.50
	Light-keepers.....	1	89.50	89.50
	Livery-keepers.....	1	88.50	88.50
	Livery Men.....	2	81.00	40.50
	Lumbermen.....	27	1,248.50	46.24
	Milk Men.....	1	54.50	54.50
	Mining Agents.....	1	35.50	35.50
	Musicians.....	1	89.50	89.50
	News Agents.....	1	21.50	21.50
	Peddlers.....	7	856.50	60.93
	Railroading.....	2	54.00	27.00
	R. R. Conductors.....	8	83.50	27.88
	R. R. Employes.....	1	50.50	50.50
	R. R. Engineers.....	2	84.00	42.00
	R. R. Hands.....	2	108.00	51.50
	R. R. Laborers.....	1	40.50	40.50
	R. R. Men.....	1	28.50	28.50
	Street Car Conductors.....	1	83.50	83.50
	Teamsters.....	8	422.00	52.75
	Trappers.....	2	75.00	37.50
	Woods Laborers.....	1	24.50	24.50
VII.	SEAFARING MEN.....	51	2,177.50	42.70
	Fishermen.....	7	299.50	42.79
	Lake Captains.....	4	196.00	49.00
	Sailors.....	38	1,585.00	40.89
	Sea Captains.....	1	58.50	58.50
	U. S. Naval Captains.....	1	68.50	68.50
VIII.	SOLDIERS.....	1	72.50	72.50
	Soldiers.....	1	72.50	72.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents.*

CLASS.	OCCUPATIONS.	No. of Persons.	AGE, — IN YEARS.	
			Aggregate.	Average.
IX.	BUSINESS MEN.....	147	6,562.50	44.68
	Bankers	1	61.50	61.50
	Book-keepers.....	2	99.00	49.50
	Brokers.....	3	139.00	69.50
	Builders	1	54.50	54.50
	Butter and Egg Dealers.....	1	73.50	73.50
	Clerks.....	26	910.00	35.00
	Clothiers.....	3	173.50	57.83
	Contractors.....	2	122.00	61.00
	County Clerks and Registers	2	78.00	39.00
	Cradle and Rake Manufacturers.....	1	72.50	72.50
	Druggists.....	4	136.00	34.00
	Express Agents.....	1	36.50	36.50
	Flour Merchants.....	1	47.50	47.50
	Grocers.....	7	337.50	48.21
	Grocery Clerks	1	22.50	22.50
	Hotel-keepers.....	15	799.50	53.30
	Insurance Agents.....	1	22.50	22.50
	Justices.....	1	59.50	59.50
	Justices of the Peace.....	2	137.00	68.50
	Land Agents.....	1	58.50	58.50
	Land Dealers	1	45.50	45.50
	Liquor Dealers.....	2	93.00	46.50
	Lumber Inspectors	1	33.50	33.50
	Lumber Merchants	3	183.50	61.17
	Merchants	33	1,796.00	47.26
	Manufacturers of Lumber	1	39.50	39.50
	Photographers.....	1	33.50	33.50
	Produce Dealers.....	1	52.50	52.50
	R. R. Superintendents.....	1	53.50	53.50
	Real Estate Agents.....	2	105.00	52.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents.*

CLASS.	OCCUPATIONS.	No. of Persons.	AGE,—IN YEARS.	
			Aggregate.	Average.
	BUSINESS MEN—(Continued.)			
	Salesmen.....	1	24.50	24.50
	Saloon-keepers.....	10	488.00	48.80
	Sewing Machine Agents.....	2*	67.00	33.50
	Scribes.....	1	41.50	41.50
	Slave Dealers.....	1	37.50	37.50
	Stockholders.....	1	74.50	74.50
	Store-keepers.....	1	25.50	25.50
	Street Commissioners.....	1	67.50	67.50
	Tradesmen.....	2	110.00	55.00
	Vessel Owners.....	1	50.50	50.50
X.	PROFESSIONAL MEN.....	66	3,494.00	52.94
	Artists.....	8	155.50	19.44
	Attorneys.....	1	46.50	46.50
	Civil Engineers and Solicitors of Patents....	1	62.50	62.50
	Dentists.....	2	99.00	49.50
	Dentists and Physicians.....	1	62.50	62.50
	Editors.....	1	36.50	36.50
	Judges.....	1	72.50	72.50
	Lawyers.....	9	427.50	47.50
	Ministers.....	14	852.00	60.86
	Physicians.....	19	1,182.50	62.24
	Poets.....	1	23.50	23.50
	Students.....	4	92.00	23.00
	Surveyors.....	2	88.00	44.00
	Teachers.....	5	210.50	42.10
	Veterinary Surgeons.....	2	84.00	42.00
XI.	UNEMPLOYED.....	58	3,375.50	58.19
	Paupers.....	5	315.50	63.10
	Retired.....	4	298.00	74.50
	Unemployed.....	44	2,762.00	62.77

TABLE XXIX.—CONTINUED.—*Occupations of Decedents.*

CLASS.	OCCUPATIONS.	No. of Persons.	AGE,—IN YEARS.	
			Aggregate.	Average.
XII.	FEMALES.....	907	42,705.50	47.08
	“At Home”.....	1	25.50	25.50
	Bakers' Wives.....	1	59.50	59.50
	Basket-makers.....	1	45.50	45.50
	Boarding.....	2	134.00	67.00
	Book-keepers' Wives.....	1	37.50	37.50
	Carpet Weavers.....	1	58.50	58.50
	Carpenters' Wives.....	1	32.50	32.50
	Cooks.....	2	84.50	29.17
	Cutters and Fitters.....	1	42.50	42.50
	Detectives.....	1	56.50	56.50
	Domestics.....	4	179.00	44.75
	Dress-makers.....	9	800.50	33.89
	Farmers.....	127	6,547.50	51.56
	Farmers' Daughters.....	8	82.50	27.50
	Farmers' Widows.....	1	84.50	84.50
	Farmers' Wives.....	81	2,783.50	46.15
	Gardeners' Wives.....	1	72.50	72.50
	Help.....	1	26.50	26.50
	Hotel Clerks.....	1	33.50	33.50
	Hotel-keepers.....	2	70.00	35.00
	Hotel Landladies.....	1	28.50	28.50
	Householders.....	3	155.50	51.68
	House-keepers.....	279	12,871.50	46.13
	Housewives.....	86	4,070.00	47.23
	House-workers.....	67	3,062.50	45.71
	Husbandmen.....	1	84.50	84.50
	Laborers.....	5	226.50	45.30
	Laborers' Wives.....	2	92.50	30.83
	Landladies.....	2	104.00	52.00
	Masons' Wives.....	1	26.50	26.50
	Mat-makers.....	1	50.50	50.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents.*

CLASS.	OCCUPATIONS.	No. of Persons.	AGE, —IN YEARS.	
			Aggregate.	Average.
	FEMALES—(Continued.)			
	Matrons.....	1	54.50	54.50
	Merchants.....	1	84.50	84.50
	Merchants' Wives.....	2	74.00	37.00
	Midwives.....	1	56.50	56.50
	Millers.....	1	72.50	72.50
	Milliners.....	6	283.00	38.67
	Miscellaneous.....	1	22.50	22.50
	Mothers.....	1	43.50	43.50
	Music Teachers.....	2	96.00	48.00
	Paupers.....	2	111.00	55.50
	Peddlers.....	1	31.50	31.50
	Printers' Wives.....	1	34.50	34.50
	Seamstresses.....	4	218.00	58.25
	Servants.....	9	239.50	26.61
	Students.....	2	48.00	21.50
	Tailloresses.....	8	174.50	58.17
	Teachers.....	22	619.00	28.09
	Unemployed.....	126	6,321.00	54.18
	Washers.....	8	164.50	54.88
	Weavers.....	2	134.00	67.00
	Wives.....	24	951.00	39.63

EXHIBIT 21.—Showing some Meteorological Conditions at different Localities in Michigan for the Year 1872, as taken from the Reports of the Chief Signal Officer of the United States, at Washington, for the Years 1872 and 1873.

MONTHS.	DETROIT.				ESCANABA.				GRAND HAVEN.				MARQUETTE.			
	Barom-eter. Mean.	Ther-mome-ter. Mean.	Rain-fall in Inches. Total.	Precipitation in Inches. Total.	Barom-eter. Mean.	Ther-mome-ter. Mean.	Rain-fall in Inches. Total.	Precipitation in Inches. Total.	Barom-eter. Mean.	Ther-mome-ter. Mean.	Rain-fall in Inches. Total.	Precipitation in Inches. Total.	Barom-eter. Mean.	Ther-mome-ter. Mean.	Rain-fall in Inches. Total.	Precipitation in Inches. Total.
YEAR 1872.....	30.000	46.0	25.63	S. W.	29.965	39.9	32.53	S.	29.973	44.5	31.34	W.	29.941	38.6	30.24	W.
January.....	30.040	28.0	1.05	S. W.	30.020	17.0	.90	W.	30.013	24.4	1.84	W.	29.990	18.7	.89	W.
February.....	30.020	28.0	.69	N. W.	30.000	20.0	1.19	S.	29.981	21.6	.64	W.	*	18.7	.31	W.
March.....	30.064	25.6	1.23	W.	30.077	16.3	1.24	W.	30.035	24.3	1.64	W.	*	15.5	.37	W.
April.....	29.976	46.8	2.15	E.	29.937	36.5	1.50	S.	29.933	43.6	2.31	S. W.	*	37.3	.38	W.
May.....	29.986	56.8	5.64	W.	29.921	49.3	7.21	N. E.	29.921	52.9	2.94	W.	29.930	46.0	6.69	N. W.
June.....	29.928	63.3	2.85	S. W.	29.864	63.0	2.45	S.	29.900	64.6	2.27	W.	29.850	59.4	3.32	W.
July.....	29.920	72.8	2.63	S. W.	29.913	67.0	7.11	S.	29.911	69.5	1.46	S.	29.890	59.0	4.79	W.
August.....	29.990	71.6	2.60	S. W.	29.977	66.7	2.87	S.	29.972	69.5	6.31	S. W.	29.930	63.4	2.74	N. W.
September.....	29.944	62.6	3.84	S. W.	29.898	57.5	3.97	N.	29.890	60.8	9.37	W.	29.800	55.6	8.80	N. W.
October.....	30.051	49.1	1.60	S. W.	30.004	47.0	0.47	S.	30.031	43.3	0.84	S. W.	30.000	45.5	0.61	W.
November.....	30.014	32.9	0.67	W.	29.901	37.2	3.11	S. W.	29.963	33.4	2.09	N. W.	29.911	29.1	1.48	W.
December.....	30.137	20.0	.69	W.	30.093	11.3	0.50	W.	30.119	20.5	.....	W.	30.110	19.0	0.45	W.
Average Month..	30.000	46.0	2.14	.....	29.965	39.9	2.71	.....	29.973	44.5	2.61	.....	29.941	38.6	2.53	.....

* Barometer broken.

In Exhibit 21, the statements of Atmospheric Pressure have evidently been "reduced to sea level." This was for the purposes of the Signal Service Bureau, but it is not the best method for purposes of comparison with the actual Atmospheric Pressure in other localities, in studying its influence on life and health. It is given here because it is the best data accessible, and serves the purpose of comparing the localities here specified, and also the months in each of these localities. Placed on record in this connection in this manner, it may be possible hereafter to get statements of the altitudes, and thereby correct back the statements.

In Table XXX. the observations of Atmospheric Pressure have not been "reduced to sea level," but show the actual pressure, as is desirable for use here.

The data for Tables XXX. and XXXI. are from observations made by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing, Michigan. This place of observation being nearly in the center of the population represented by the deaths in this State, the meteorological data may be used for purposes of studying the relations of deaths from the various diseases to the meteorological conditions, as suggested in a note on page 374 of this Report, until such time as more complete statements can be secured for different parts of the State.

TABLE XXX.—Exhibiting for the Year, for each Month, and an Average Month, during the Year 1872, the Mean Height and Range of Barometer; the Direction of the Prevailing Winds; the Relative Humidity; the Per Cent. of Cloudiness; the Number of Days on which it Rained or Snowed; the Depth of Rain and Melted Snow, in Inches; and the relative residual Ozone, at the Agricultural College, near Lansing, Mich.

YEAR AND MONTHS, 1872.	Barometer, Reduced to 32° Fahrenheit, Mean.	Range of Barometer.	DAYS OF PREVAILING WINDS.								Relative Humidity, or Per Cent. of Saturation,—Average.	Per Cent. of Cloudiness of Sky,—Average.	Number of Days on which it Rained or Snowed.	Rain and Melted Snow, in Inches.	ONONT, RELATIVE MAXIMUM IS 10.		
			North.	North-east.	East.	South-east.	South.	South-west.	West.	North-west.					Day,—14° F. to 4° F.	Night,—9° F. to 10° F.	Day,—14° F. to 4° F.
YEAR 1872.....	28.902	1.902	11	37	80	14	9	144	92	25	58	56	108	26.838	2.82	4.24	2.82
January.....	28.888	1.228	8	1	2	1	-----	14	8	1	88	71	6	.437	4.50	5.44	4.50
February.....	28.942	1.107	9	5	-----	2	1	12	2	1	84	50	6	.490	4.00	6.00	4.00
March.....	28.911	1.121	5	9	-----	-----	-----	6	4	2	85	54	6	2.040	8.00	5.71	8.00
April.....	28.832	.961	-----	5	2	8	-----	9	8	8	74	53	7	1.260	2.68	5.80	2.68
May.....	28.863	.872	-----	-----	6	4	-----	11	8	1	77	60	10	8.730	2.14	8.84	2.14
June.....	28.879	1.512	-----	2	9	1	-----	17	8	-----	78	49	5	8.454	1.91	8.23	1.91
July.....	28.924	.404	-----	4	2	-----	-----	14	9	2	77	47	11	8.860	.88	2.25	.88
August.....	28.967	.872	1	1	4	-----	-----	18	5	2	83	50	8	4.150	.98	.99	.98
September.....	28.890	.897	-----	4	2	-----	-----	14	8	2	85	48	13	5.212	1.40	1.86	1.40
October.....	28.979	.901	-----	4	5	1	-----	10	5	5	84	47	5	.670	1.98	8.18	1.98
November.....	28.881	1.147	-----	1	2	2	1	7	16	1	89	69	13	.990	4.60	6.17	.990
December.....	28.992	.917	-----	1	8	-----	-----	10	11	5	91	72	14	1.000	5.91	6.94	1.000
Monthly Average.....	28.902	.905	.92	8.06	2.50	1.17	.17	12.00	7.67	2.08	88	66	9	2.288	2.93	4.34	2.93

TABLE XXXI.—*Exhibiting the Mean Temperature; the Highest and Lowest Temperature; the Monthly Range; the Mean Daily Range; the Mean Range from Day to Day; and the Greatest Rise or Fall of Thermometer in 24 Hours, and in 14 Hours for each Month of the Year 1872, at the Agricultural College, near Lansing, Michigan.*

YEAR AND MONTHS, 1872.	THERMOMETER,—FAHRENHEIT.									
	THREE OBSERVATIONS DAILY,—AT 7 A. M., 2 P. M., AND 9 P. M.				AVERAGE RANGE.		GREATEST CHANGE IN 24 HOURS.		GREATEST CHANGE IN 14 HOURS,—7 A. M., TO 9 P. M.	
	Mean.	Highest.	Lowest.	Range.	Daily.	From Day to Day.	Degrees of Rise and Fall.	Day of Month.	Degrees of Rise and Fall.	Day of Month.
YEAR	45.54°	99	-32	131	15.31°	13.14°	R. 43°	Feb. 9	R. 43°	Feb. 9
January....	21.59°	41	-3	49	9.87°	12.23°	R. 22°	15	R. & F. 19°	26, 28
February ..	21.34	53	-16	69	20.41	23.31	R. 48	9	R. 48	9
March.....	24.75	58	-17	70	17.32	19.97	F. 40	5	R. 38	5
April.....	47.39	84	20	64	16.10	20.30	F. 29	21	R. 27	20
May.....	58.43	35	36	49	12.80	13.65	F. 32	1	R. 27	3
June.....	71.32	98	55	43	16.40	19.43	R. & F. 23	20, 22	F. 23	22
July.....	74.91	99	60	39	16.45	19.55	R. 32	8	F. 26	12
August....	71.22	98	47	46	15.32	17.31	R. 29	31	R. 29	31
September.	62.03	92	32	60	16.50	19.00	R. 23	23	R. 23	23
October....	47.44	76	23	54	13.39	21.53	R. 39	20	R. 39	20
November..	29.80	53	-2	55	12.10	13.43	F. 25	3	R. 24	30
December..	15.74	37	-32	69	12.03	12.56	R. 31	24	R. 31	24

LAWS OF MICHIGAN
CONCERNING THE
SOLEMNIZATION OF MARRIAGES,
AND THE
RECORD, RETURN, AND COMPILATION
OF
BIRTHS, MARRIAGES, AND DEATHS;
WITH
SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE
MARRIAGES IN MICHIGAN.

CHAP. CLXIX., COMPILED LAWS OF 1871.

MARRIAGE AND THE SOLEMNIZATION THEREOF.

SECTION.

4719. Who shall be capable of contracting Marriage.

4720. Marriage is a civil contract.

4731. Who shall not intermarry.

4723. 4734. Who not to marry.

4723. Marriage, by whom solemnized.

4726. One of parties to be examined on oath.

SECTION.

4727. No particular form required.

4723. Forfeiture for joining persons in Marriage contrary to law.

4729. Punishment of persons unauthorized, etc.

4730. Marriages not void in certain cases.

4731. Marriages among Quakers, etc.

4732. Certificates and record made evidence.

Chapter Eighty-three of Revised Statutes of 1846.*

(4719.) SECTION 1. Every male who shall have attained the full age of eighteen years, and every female who shall have attained the full age of sixteen years, shall be capable in law of contracting marriage, if otherwise competent.

(4720.) SEC. 2. Marriage, so far as its validity in law is concerned, is a civil contract, to which the consent of parties capable in law of contracting is essential.

(4721.) SEC. 3. No man shall marry his mother, grandmother, daughter, granddaughter, stepmother, grandfather's wife, son's wife, grandson's wife, wife's mother, wife's grandmother, wife's daughter, wife's granddaughter, nor his sister, brother's daughter, sister's daughter, father's sister, or mother's sister.

(4722.) SEC. 4. No woman shall marry her father, grandfather, son, grandson, stepfather, grandmother's husband, daughter's husband, granddaughter's husband, husband's father, husband's grandfather, husband's son, husband's

* For prior Statutes relative to the solemnization of Marriages, see Woodward Code, p. 42; Cass Code, p. 111; Code of 1820, p. 259; Rev. of 1827, p. 280; Laws of 1832 p. 6; Rev. of 1838, p. 829; R. S. of 1833, p. 333.

grandson, nor her brother, brother's son, sister's son, father's brother, or mother's brother.

(4723.) SEC. 5. No marriage shall be contracted whilst either of the parties has a former wife or husband living, unless the marriage with such former wife or husband shall have been dissolved.

(4724.) SEC. 6. No white person shall intermarry with a negro, and no insane person or idiot shall be capable of contracting marriage.

(4725.) SEC. 7. Marriages may be solemnized by any justice of the peace in the county in which he was chosen, and they may be solemnized throughout the State by any minister of the gospel who has been ordained according to the usages of his denomination, and who is a pastor of any church or churches in this State, or who shall continue to preach the gospel in this State: *Provided*, That all non-resident ministers of the gospel who are authorized by this act to solemnize marriages, shall keep proper records and make returns as required by section two, chapter sixteen of the compiled laws of eighteen hundred and seventy-one. ^{a b}

(4726.) SEC. 8. All justices of the peace and ministers of the gospel are hereby authorized and required, before solemnizing any marriage, to examine at least one of the parties on oath, which oath they are hereby authorized to administer, as to the legality of such intended marriage.

(4727.) SEC. 9. In the solemnization of marriages, no particular form shall be required, except that the parties shall solemnly declare, in the presence of the magistrate or minister, and the attending witnesses, that they take each other as husband and wife; and in every case there shall be at least two witnesses, besides the minister or magistrate, present at the ceremony.

SEC. 10. ^c

SEC. 11. ^c

SEC. 12. ^c

SEC. 13. ^c

^a As amended by Act No. 83, Laws of Michigan, 1873.

^b Previous to 1811 the Mayor of Flint was also authorized to solemnize marriages.

^c Repealed by Act 191, Laws of 1867, p. 266, Sec. 10.

(4728.) SEC. 14. If any justice of the peace or minister of the gospel shall join any person in marriage contrary to the provisions of this chapter, he shall forfeit for every such offense a sum not exceeding five hundred dollars.

(4729.) SEC. 15. If any person shall undertake to join others in marriage, knowing that he is not lawfully authorized so to do, or knowing of any legal impediment to the proposed marriage, he shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be punished by imprisonment in the county jail not more than one year, or by a fine not less than fifty nor more than five hundred dollars, or by both such fine and imprisonment, in the discretion of the court.

(4730.) SEC. 16. No marriage solemnized before any person professing to be a justice of the peace or a minister of the gospel, shall be deemed or adjudged to be void, nor shall the validity thereof be in any way affected, on account of any want of jurisdiction or authority in such supposed justice or minister: *Provided*, The marriage be consummated with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

(4731.) SEC. 17. The preceding provisions of this chapter, so far as they relate to the manner of solemnizing marriages, shall not affect marriages among the people called Friends or Quakers; nor marriages among people of any other particular denomination having, as such, any peculiar mode of solemnizing marriages; but such marriages may be solemnized in the manner heretofore used and practiced in their respective societies or denominations.

(4732.) SEC. 18. The original certificates and records of marriage made by the minister or justice, as prescribed in this chapter, and the record thereof made by the county clerk, or a copy of such record duly certified by such clerk, shall be received in all courts and places as presumptive evidence of the fact of such marriage.

AN ACT

TO PROVIDE FOR THE

REGISTRATION OF BIRTHS, MARRIAGES, AND DEATHS.

BEING ACT No. 194 OF 1867, AS AMENDED BY ACT No. 125 OF 1869.

SECTION 1. *The People of the State of Michigan enact, That* Duties of supervisors and assessors.
it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: *Provided,* Returns to county clerk.
That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed In 1869 returns to be made from April 5 to Dec. 31, 1868.
In 1870 and thereafter.
Returns to include from January to December last preceding.
Statistics, how obtained.
Compensation.
Proviso relative to the city of Detroit.

Duty of common council.	by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city as shall be necessary to
Persons to be appointed by.	perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them respectively, by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be fixed by the
Compensation of persons so appointed.	common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.
How paid.	
Penalties.	
Marriages to be recorded.	SEC. 2. Every justice of the peace, minister of the gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.*
Marriage of Quakers.	
Certificates to be furnished.	
Fee for recording.	
County clerks; duties of.	SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such

[* Blanks for return of marriages to the county clerk are prepared by the Secretary of State, and sent to the clerks of the several counties, from whom they may be obtained upon application.]

births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages, and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate columns, the date of the birth, the name of the child (if it have any), the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death, the christian and surname of the deceased, the sex and color, whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the

Births,
marriages
and deaths
to be num-
bered and
indexed.

Record of
births shall
state.

Provido.

Record of
marriages
shall state.

Record of
deaths shall
state.

Return of
county
clerk.

nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records of his office, of all the births, marriages and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

Compensa-
tion.

Secretary of
State shall
furnish all
blank books,
blanks,
instructions,
etc.

SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

Returns to
be bound
and indexed.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State for that pur-

Secretary of
State to
make annual
report.

pose,* he shall prepare such tabular statements, results, and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

SEC. 6. Every justice of the peace, minister of the gospel, ^{Neglect to keep records.} and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of ^{Neglect to deliver certificates.} the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, ^{Penalty.} shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

SEC. 7. Every physician, surgeon, or midwife, who shall have ^{Certificate of death.} been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor a certified statement, without fee, containing the name of the disease, or cause (if known), producing the death of such person; and any medical attendant who shall neglect or refuse to give such state- ^{Refusal to make certificate.} ment, or who shall willfully make a false statement in relation

* Practically amended by Section 10 of Act No. 81 Laws of Mich., 1878, printed on page 444.

Penalty. to such death, shall, for such offense, be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

Facts to be obtained by supervisor. SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained), from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, workhouses, almshouses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail vessels, navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred ;

Refusal to furnish. and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death ; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer) in relation to any birth or death within his township, city or any ward therein, of which such person or persons may have any knowledge or information ; and if any person, after being duly subpoenaed (as provided for compelling the attendance of witnesses in justices' courts) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine

Obtained under oath.

Neglecting to answer a subpoena.

Penalty.

be paid, but not exceeding ninety days; and any person who, after being duly sworn as aforesaid, shall willfully make any *Perjury.* false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided,* That no person shall be required *Proviso.* to answer any question which will tend to criminate himself or herself upon any such examination.

SEC. 9. In case of the refusal or neglect by any of the officers *Neglect to perform duties.* mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and *Penalty.* the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any *Misdemeanor.* ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

SEC. 10. Sections three thousand two hundred and thirteen, *Sections repealed.* three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 11. The several supervisors and assessors of the townships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixty-eight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding sections. And such county clerks as have made returns of the births, marriages and deaths to the Secretary of State for the year eighteen hundred and sixty-eight, and who have not received compensation therefor, shall be paid for the same at the rates set forth in the preceding sections.

AN ACT to establish a State Board of Health, to provide for the appointment of a Superintendent of Vital Statistics, and to assign certain duties to Local Boards of Health, being Act No. 81, Laws of 1873.

* * * * *

Secretary of
State Board
of Health to
be Superin-
tendent of
Vital Statis-
tics.

SEC. 10. The Secretary of the State Board of Health shall be the Superintendent of Vital Statistics. Under the general direction of the Secretary of State, he shall collect these statistics, and prepare and publish the report required by law relating to births, marriages, and deaths.

* * * * *

Approved April 12, 1873.



SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES IN MICHIGAN.



A thorough knowledge of the law concerning the solemnization and return of marriages in Michigan is necessary to a correct performance of the duties of persons authorized to solemnize marriages.

The most frequent violation of the law is in the marriage of persons *under the lawful age*, which is: for males eighteen (18) years, and for females sixteen (16) years. See Section (4719) Compiled Laws of 1871, printed on a previous page. The penalty for the violation of this provision is a forfeit of not exceeding five hundred (500) dollars. See Sec. (4726) Compiled Laws of 1871, printed on a previous page.

In the record and return of marriages, every item specified in the law should be carefully ascertained, and correctly and plainly written. No item should be omitted, and nothing

taken for granted, as is often the case with the fact as to COLOR of persons married.

In recording the BIRTHPLACE of each, the State or country should be distinctly given in each case. This will avoid the difficulty of ascertaining the nativity of persons whose birth-place is returned "Holland," "Hanover," "Denmark," "Wales," "Paris," etc., etc.,—names of places which may be either in the United States or Europe. If such or similar names occur, please state whether it is Holland, *Michigan*, or Holland, *Europe*, and so for each case. Never return the birth-place "America," as we cannot know whether it is in the United States, and are therefore compelled to compile it with the "Unknown." For statistical purposes it is desirable that *every* item be furnished which is called for by the blank upon which you make your returns to your county clerk, *giving close attention to the foot-notes upon the blank.*

In making your returns to the county clerk, you should give your *official station*, as well as your name.

Blanks for the return of marriages to the county clerk can be obtained of the county clerk, who can obtain them from the Secretary of State, at Lansing.

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